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AL042026, AL040542, AL042640, AL042540, AL046135, AL041808, AL044178, AL044364, AL043613, AL044413, AL044836, AL043840, AL042334, AL043585, AL044583, AL044354, AL041936, AL039459, AL039576, AL039576, AL040947, AL046244, AL043201, AL043604, AL039472, AL046383, AL043218, AL039689, AL044015, AL044350, AL039550, AL043425, AL042346, AL043424, D11960, AL045991, AL079876, AW450335, AL044377, AL042700, AL043468, AW297822, AL043795, AI546832, AL043128, AL044029, AL044245, AL044771, AL042712, AL036650, AL043867, AL049007, AL036630, N84802, T23658, AL039924, AL046097, AL040414, AL044412, AL040571, AL046994, AR035193, A13393, A49045, A58522, A58523, A58524, A58525, A64973, A82653, A83151, A83642, A83643, A84772, A84773, A84774, A84775, A84776, A86792, A93963, A93964, A95052, AR017907, AR027100, AR067731, AR067732, E12615, E16636, I28266, I44516, A17115, A18079, A27396, A98767, AR028564, I63120, A02710, A02712, A07700, A13392, A22413, A25909, A60955, A68104, A68112, A76773, A91750, A93016, AR009151, AR009152, AR037157, AR054109, E14304, E16678, I19516, I21869, AR068550, AR068551, A02228, A13388, A18050, A18053, A23334, A23633, A23998, A24782, A24783, A38214, A44171, A48774, A48775, A49700, A58521, A58998, A60111,		2203		HEOQP44

HEOQS11	2204	965930	1 - 310	15 - 324	A60209, A60210, A60211, A60212, A70040, A75888, A80474, A80475, A80476, A80477, A83180, A84746, A95051, A95117, A98417, A98420, A98423, A98427, A98432, A98436, A98467, AR000006, AR000007, AR007512, AR018923, AR018924, AR020969, AR021440, AR028667, AR028668, AR028669, AR028670, AR029417, AR031529, AR035224, AR050583, AR050584, AR051651, AR051652, AR067733, AR067734, AR068506, AR068507, I50882, I70384, I70974, I77211, I95540, AR031375, A21624, A21625, I19517, A00781, A00783, A02230, A18756, A25853, AR015961, AR038307, A29109, A32110, A49701, A58526, A91753, A94046, A94048, A94054, A94061, AR028672, AR031488, AR038066, AR043602, AR043603, AR060673, AR060676, AR062871, E13740, I13349, I13521, I44531, I52048, I60241, I60242, I62368, I84555, A10360, A10361, A27169, A27170, A37074, A37075, A39929, A42481, A42484, A49987, A52326, A92133, AR015960, AR027070, E00952, E00953, E00954, E00955, E00974, E01324, E01563, E01614, E01693, E01696, E01718, E01999, E02001, E02003, E02098, E02100, E02104, E02221, E02291, E02292, E02293, E02396, E02428, E02431, E02679, E03165, E03550, E12523, E12527, E13364, E16036, I08049, I08638, I09251, I09267, I09268, I09269, I09270, I56772, I66481, I66482, I66485, E02096, A00784, AR038321, I09252, A10359, A18722, E02102, E02430, I66483, I66484, A20700, A20702, A43188, A43189, AR005153, AR005154, AR005157, AR005160, AR005163, AR005165, I66488, I66489, I66490, I66491, I66492, I66493, E02327, A32111, I25027, I25041, I26927, I26928, I26929, and I26930.
HEOQT57	2205	850931	1 - 644	15 - 658	Z99396, AW392670, AL036418, AL038837, AW384394, AL037051, AL036725, AW363220, AA631969, AW372827, AL036858, AL119497, AL039074, AL119324, AL119443, U46350, AL036924, AL119319, AL119457, U46341, AL119483, AL119484, AL119363, AL119341, AL119391, AL119355, AL038509, AL119522, AL039564, AL039085, U46349, AL039156, U46351, AL039108, AL039109, AL039128, AL119496, U46347, AL037639, AL037094, AL119418, AL039659, AL119399, AL037085, AL037526, AL119444, AL036196, AL036190, U46346, AL079683, AL042614, AL037205, AL038531, AL119439, AL119488, AL036268, AL036767, AL038520, AL037082, AL042965, AL042975, U46345, AL134533, AL134528, AL039625, AL039648, AL045337, AL042984, AL036238, AL042551, AL134527, AL134538, AL042450, AL042909, AL037077, AL038447, AL042970, AL039678, AL039629, AL039386, AL042542, AL042544, AL043019, AL043029, AL037615, AL038851, AL043003, AL119511, AL036998, AL036733, AL037027, AL037178, AL036719, AL119464, AL036774, AL036765, AL039410, AL037021, AL036679, AL036191, AL036886, AR060234, AR066494, AL81671, AR023813, AR064707, AR069079, AR054110, AR043113, and AB026436.
HEOQT76	2206	850932	1 - 658	15 - 672	Z99396, AW392670, AL119497, AL036418, AL038837, AL119457, AL037051, AL036725, AW372827, AW384394, AA631969, AW363220, AL036858, AL119391, AL039074, AL119443, AL119319, AL119335, U46346, AL036924, AL119224, AL036924, AL119363, AL119496, U46350, U46341, AL119341, AL119484, AL119355, AL119522, U46351, AL038509, AL119396,

HEOQW56	2207	883227	1 - 212	15 - 226	U46349, AL039564, AL039085, AL039156, AL039108, AL039109, AL039128, AL119418, AL037639, U46347, AL134528, AL037094, AL037085, AL119444, AL042965, AL039659, AL036268, AL036196, AL036190, AL042614, AL134533, AL134538, AL042975, AL037205, AL119439, AL037526, AL038531, AL134902, AL119399, AL036767, AI142132, U46345, AL134518, AL134524, AL037082, AL045337, AL036238, AL134531, AL042450, AL042984, AL042551, AL039625, AL039648, AL038520, AL039678, AL039629, AL039386, AL042970, AL119488, AL042909, AL037077, AL042542, AL038447, AL039678, AL039423, AL036998, AL037615, AL038851, AL043003, AL036719, AL036733, AL037027, AL039423, AL036998, AL037615, AL038851, AL043003, AL039410, AL036765, AL036886, AL037178, AL119464, AL036774, AL037021, AL039410, AL036765, AL036886, AL036191, AR066494, AR060234, A81671, AR023813, AR064707, AR069079, AR054110, and AB026436.
HEOQW81	2208	887147	1 - 1046	15 - 1060	AW340464, and AF127389.
HEORC12	2209	969585	1 - 432	15 - 446	
HEORC48	2210	922885	1 - 800	15 - 814	T91937, T99157, T96469, AW082364, AI268419, AI690257, and AB007861.
HEORE11	2211	965904	1 - 746	15 - 760	R93208, Z99396, AW392670, AL036418, AL038837, AW372827, AW384394, AL037051, AL036725, AL119497, AL119319, AW363220, AL119457, AA631969, AL119324, AL119483, AL119484, AL119391, AL119443, U46350, AL119522, AL119363, AL038509, U46351, AL036858, U46341, AL119355, AL039074, AL119418, U46349, AL119341, AL119335, AL036924, AL119496, AL119396, U46347, AL119399, AL119444, AL037205, AL119439, AL042965, AL037639, AL134531, AL039564, AL134538, AL039085, AL037094, AL119401, AL039156, AL037082, AL039108, U46346, AL039109, U46345, AL043029, AL134920, AL042975, AL042544, AL042984, AL134533, AL134536, AL042614, AL134532, AL038447, U46345, AL038531, AL043011, AL036268, AL042450, AL037615, AL036767, AL042551, AL038851, AL036238, AL036765, AL036719, AL036191, AL036158, AL037077, AL043003, AL036998, AL036836, AL037027, AL036679, AL036774, AL036158, AL037021, AL036836, AR066494, AR060234, A81671, AR023813, AR064707, AB026436, AR069079, and AR054110.
HEORE22	2212	969579	1 - 704	15 - 718	
HEORE27	2213	850902	1 - 636	15 - 650	
HEORE79	2214	959572	1 - 315	15 - 329	
HEORF12	2215	969580	1 - 530	15 - 544	Z99396, AW392670, AW372827, AW384394, U46349, AL119483, AL119497, AW363220, AL119319, AL119355, AL119457, AL119443, AL119324, U46350, AL119484, AL119363, AL119391, AL036418, AL038837, AL119341, AL119335, AL037051, AL036725, AA631969, AL119496, AL042975, AL036858, AL119418, AL037205, AL039074, AL134538, AL037205, AL039074, AL119439, AL119439, U46346.

				AL036924, AL042984, AL134902, AL038509, AL134920, AL042614, AL042965, AL043011, AL043029, AL042973, AL134527, AL134531, AL134536, AL134533, U46345, AI142134, AL037094, AL042551, AL037526, AL037085, AL036196, AL037082, AL042544, AL043019, AL043033, AL037639, AL134526, AL042450, AL042542, AI142139, AL037077, AL036767, AL036190, AL043003, AL036268, AL119464, AL038520, AL038851, AL036774, AR060234, A81671, AR066494, AR023813, and AR064707.
HEORH20	2216	934067	1 - 417	15 - 431	AA460896, AA210943, H10636, W72144, AI799645, N27422, AA834765, AC007014, U63630, Z99774, AL031276, AL031584, AC002565, AC006449, AL023807, AL035413, AC007685, AL079342, AL031291, AL049539, AP000404, AC005045, AC005488, AC004674, AC002470, AL022721, AC007436, and AC000078.
HEORJ90	2217	918166	1 - 250	15 - 264	
HEORK01	2218	914988	1 - 202	15 - 216	
HEORM10	2219	963194	1 - 411	15 - 425	Z85996.
HEORM21	2220	839142	1 - 422	15 - 436	AW376621, AW404049, AA045146, AI905741, AA309643, AA192275, R06391, U66685, T85620, and AA085953.
HEORR01	2221	915015	1 - 648	15 - 662	AI022223, AW179316, AI065031, AA640305, AA515165, AI744817, AI500151, T57562, AI623505, AA192366, AA209415, AW087537, AA369494, AA151880, AI340151, F17549, AA708889, AA489939, AA569631, D29424, AA730530, AA601376, AA224525, AI683079, AL048969, R86114, AW082432, AI925588, AI383589, AW405593, AA084946, AI198211, AI926909, AW275788, AA661583, AW247866, R42954, AI520984, AW021674, AI571847, AA557764, AI809745, AA578326, AA577824, AI567676, AI801563, AI702049, AW148821, AI002950, AA133568, F29968, AA180756, AL121039, AL133246, AL021154, AC007298, AP000348, AC006511, AC007308, U91326, AC004966, AL121923, AC003665, AC005031, AC002300, AC007308, AC005200, AC006084, Z83819, U62317, AL050321, AL109801, Z97054, AC004149, AL049872, AC005667, AC005089, AL109613, AC006014, AC005215, AC005799, AC006312, Z83844, AC004019, AC007216, AC004650, AC005180, AL049539, AC006285, AC004765, AC005488, Z94801, AC000353, AC005003, AC005726, AC005746, AF053356, AL049869, AL133448, AC002558, AC002077, AC006365, AC005015, AL031311, AC005531, AL024507, Z93241, Z98950, AC005519, AL008719, AC007192, AC004799, AC005940, AC006013, AC002091, AC005412, AC005067, AC005031, AP000557, AC003957, AC012384, AC003101, AL021391, AC002377, AC008044, AC006449, AC007263, AL008637, AL078638, Z93017, AB025285, AL049636, AC003010, AC004999, AL022326, AC005332, AC005539, AL031295, AP000356, AF165926, AC002369, AC004699, AC006211, AC005527, AC002470, AP000555, AC005484, AC007688, AL080243, AL049631, AC005913, AL009181, AL035458, AC005971, AF001550, AP000688, AC009308, AC007919, U95742, AC007277, AC001231, AC007686, AB003151, AC004985, AL121603, AC005695, AC007225, AC005755, Z97876, AF036405, AF031076, AC006251,

HEORU06	2222	1 - 494	15 - 508	AL049830, AC006130, AC007227, AC005839, AF205588, AL031650, AC005295, AC005231, AC005593, AL020997, AC007227, AC005175, AC008041, AL049757, AL096701, AC002310, AL049776, AC004797, AC006237, AC004167, U85195, AC005104, AF001549, AC005004, AC004671, AC006057, AC008134, AL022318, AL096791, AL031289, Z84469, AC005682, AC005377, AC005252, AC005919, AC005323, AC004185, AP000152, AC006088, AC004030, AD000812, AC005619, AL008710, AE000658, AC005081, AC007371, AL031662, AC005822, AC005829, AL022323, AC005250, AP000088, AC005291, AC006441, AC005220, AC002126, AF045555, AP000553, Z92542, AC004231, AC002544, AC006132, AF134726, AC003043, AC004811, AC004883, AC004882, AL049761, AC005921, AC008055, AL022320, AC004517, AC002306, AL049712, Z82215, AP000039, AC008055, AL020995, AL049795, AC007676, AC006249, Z94056, AL034549, U96629, AC005523, AL008726, AC005288, U52112, AF042089, AC005358, AL049653, AC005048, AC002347, AC004031, AL033527, Z93244, AC004024, AF195658, AF111169, AC006121, AP000962, AC003037, AL022315, AC005305, AC004975, AC006236, Z98048, AC002350, AL139054, AL096703, AC007011, AL121652, AC005516, AC005324, AC007114, AP000275, and AC006075.
HEOSI66	2223	1 - 523	15 - 537	AA282451, AL139796, Z99396, AW392670, AW384394, AW372827, AL119457, AL119396, AL119324, AL119341, AL036924, AL037094, AL037077, AL036196, AL037082, AL036767, AL036733, AL036191, AC004798, A81671, AR060234, and AR066494.
HEOSJ50	2224	1 - 199	15 - 213	
HEOSL01	2225	1 - 537	15 - 551	
HEOSL08	2226	1 - 971	15 - 985	R93538.
HEOSL54	2227	1 - 639	15 - 653	AC007444.
HEOSN60	2228	1 - 665	15 - 679	AC005393, and AC006133.
HEOSO01	2229	1 - 432	15 - 446	AC003663.
HEOSP05	2230	1 - 680	15 - 694	AL134528, AL134518, AL119363, AW372827, AL119439, U46341, AL119319, AL134524, AL119496, AL042965, AL119484, AL042970, AL134902, AL119443, AL134920, AL134533, U46346, AL134538, AL119391, AL119444, AL042850, AL119396, AL119320, AL119304, A81671, and AR069079.
HEOSP06	2231	1 - 536	15 - 550	AA278249, AA482174, AA282390, AA488762, AA489734, AW392670, U46349, AL119319, AW372827, AW363220, AW384394, Z99396, AL119483, AL119355, AL119363, AL119457, AL119324, AL119443, U46351, AL119484, AL119391, AL119522, AL119335, AL119396, AL119439, AL037205, U46346, U46350, U46341, U46347, AL042984, AL134902, AL119418, U46345, AI142137, AL134538, AL134518, AL042975, AL042984, AL134902, AL119418, U46345, AI142137, AL134538, AL119496, AL042614, AL119399, AL042965, AL134527, AL134536, AL134528, AL134524, AL043029, AI142134, AL042544, AL119399, AL043011, AL043019, AL043033, AL042542, AL043003, AL119464, AL042551, AR060234, AL042551, AR066494, AR054110, AB026436, and

HEOSR54	2232	855615	1 - 434	15 - 448	AR069079.
HEOSS04	2233	926483	1 - 457	15 - 471	W65492, AC005393, AC006133, and AC005515.
HEOST23	2234	965916	1 - 753	15 - 767	W03011.
HFSAC03	2235	850146	1 - 552	15 - 566	AA341979, and T92688.
HFSAM43	2236	715700	1 - 162	15 - 176	AA342419.
HFSAQ59	2237	572813	1 - 423	15 - 437	AA342556, and AC005158.
HFSAV59	2238	675922	1 - 264	15 - 278	AW020037, AI658843, AA342731, AA828039, AI400553, and AJ010597.
HFSAX51	2239	572815	1 - 399	15 - 413	AA342635, and R37508.
HFSBF09	2240	573315	1 - 403	15 - 417	AA343192.
HFSBG31	2241	504368	1 - 306	15 - 320	AA343240, AA343241, and AC007688.
HHEAA27	2242	575258	1 - 489	15 - 503	AI537538, Z83822, AC006285, and AC016025.
HHEAM44	2243	726856	1 - 596	15 - 610	AA489589, AB022537, and AL031228.
HHEAW46	2244	718120	1 - 572	15 - 586	AW262813, AW411169, R68959, and AI380261.
HHEBS24	2245	858417	1 - 306	15 - 320	
HHECK11	2246	924982	1 - 223	15 - 237	
HHECK33	2247	871375	1 - 232	15 - 246	I31887, and I31888.
HHECM01	2248	916178	1 - 429	15 - 443	AA586433, H81732, AI049701, H71738, AA878407, AI884861, AI002762, AA021139, AA320105, AA515929, AI564301, AI699049, F07564, R93854, AA074351, AA598608, AA857812, AI004740, AA721998, AI255004, AI255015, F25640, AA814719, AA351808, AI143653, AL042869, AI065043, AA736713, AI280574, AI251576, AI306232, AA326904, AA729373, AI583466, F16409, AI279417, AA468923, AI869786, AA326452, AA454504, AA846923, AI805261, AA128969, AW274191, AI246192, AA809125, AA811954, AI733647, AI904944, AI914713, AI880889, AI733662, AI590404, AA324088, AA218651, AW381823, AI865980, AA313133, AA326330, AA507526, AI282479, AA484892, AW190484, AI567391, AA584484, AW238712, AI289396, T49933, AA595656, AA492105, AI983047, N20173, AA374797, AI479068, F35097, W44359, AA720582, AW328331, AA503298, AI921491, AA405726, AA558404, AW166920, AI610737, AW128881, AA652059, AF003626, AC004999, AC002554, AC007193, AC006008, AC004975, AC005998, AC006530, AC005625, AF124730, AF165926, AP000066, AP000280, AP000224, Z95703, AC005697, AF024534, AP000039, AP000107, AL110502, Z73963, Z93023, Z98950, AL133494, AP000224, AP000086, AP000045, AP000113, AF053356, AC005003, Z84477, AC005412, AL049780, AC007055, AC005086, AL031277, AC006137, AC005237, AL133163, AC007680, AC009247, AC004236, AC009275, AP000314, AC004948, AP000194, AL031666, AL050308, AC007429, AL078581, U80017, AL132987, AC004782, AC005193, AC006130, Z82189, AC006538, AC004814, AP000153, AP000011, AC004020, AC002039, AC005839, AL049869, AB026899, AB031885, AC007536,

HHECM66	2249	781893	1 - 375	15 - 389	Z83822, AC005620, Z83826, AC005380, Z97183, AC004743, AL022323, L47234, AC006146, AL133353, AL049779, AC000085, ALO22163, AC005225, AL031284, AL109758, AC004997, AC005393, AC004241, AF111168, AC005829, AC004882, AL034430, AL021393, AL022322, AC005544, AC002401, AB015355, AC006529, AC005585, AC005594, AC004963, AC007051, AL133448, AC004804, AC005203, AP000359, AL049589, AC006111, AC004967, AC007919, AL109798, AC005529, AC004650, AC004778, AC002310, AC006141, AB023178, AC002314, AC000088, AC002350, AC006071, AL049795, AC006480, AC005358, Z81364, AC003965, AC005763, AC000071, AF048990, AC002477, AD000671, AC002347, AC002128, AC002390, Z82184, AP000503, AC009784, U73637, AL023575, AL021546, AC003663, AC002563, AC004797, AC003098, AC005736, AC004789, AL031311, AL133371, L78810, AC004234, Z83844, AC002455, AC002996, AC004832, AC006581, AC006487, AC007278, AP000553, Z82097, AP000252, AB022785, AP000212, AP000134, AL008635, AL035587, AP000031, AC005058, AC005480, Z95152, AL049636, AL022333, U82696, AL049538, AC005369, AP000111, AP000043, AC004837, AC004862, AC006372, AP000504, Z29373, AC002527, AC004648, AC005726, Z97989, AL133355, AL049874, Z97196, AC004520, AL049540, AC004674, AL117337, AC006432, AF205588, AC003109, AL121653, AC002351, Y11107, AF015416, AC000115, U07561, AC002511, AC004223, AC002395, AC002195, AC005581, AC004985, AC005895, AC004938, AC005099, AC004099, AP000270, Z69890, Z94056, and AP000500
HHECO01	2250	915285	1 - 311	15 - 325	H63677, and AL020997.
HHECR08	2251	959125	1 - 565	15 - 579	AF039241, T07305, AC004150, AF039691, AF132608, AF207748, and AF006602.
HHECT58	2252	973110	1 - 430	15 - 444	AI913928, AA480258, and AA493192.
HHECT59	2253	858407	1 - 517	15 - 531	AW079676, and AI291307.
HHECT70	2254	753842	1 - 147	15 - 161	AA356150.
HHECX82	2255	915913	1 - 523	15 - 537	AL042096, AL040576, AL040768, AL038532, AL046850, AL044201, AL044258, AL041577, AL043570, AL041459, AL043848, AL043814, AL038983, AL039316, AL043923, AL044064, AL042135, AL043845, AL040052, AL041374, AL046392, AL043627, AL041523, AL041730, AL040148, AL040082, AL044272, AL044090, AL040329, AL040294, AL040263, AL044187, AL044199, AL040458, AL045990, AL041635, AL044074, AL038838, AL045920, AL041602, AL043492, AL044165, AL043775, AL041752, AL040839, AL046442, AL043677, AL040745, AL045684, AL040617, AL040332, AL040255, AL040285, AL040342, AL040091, AL040128, AL040168, AL044186, AL044037, AL043467, AL040510, AL040625, AL045817, AL041142, AL041238, AL047183, AL040322, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL039915, AL037435, AL043612, AL041197, AL043537, AL041186, AL044274, AL045753, AL040253, AL041131, AL039360, AL037727, AL040529, AL045857, AL049018, AL045725, AL040553, AL038822, AL037436, AL041159,

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AL045671, AL041168, AI142134, AL041133, AL041140, AL040238, AL037343, AL041096,
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AI541365, AL038761, AI541374, AL041246, Z30131, AA585476, AL079852, AI541535,
AI541514, AL045784, AA585439, T23957, R29445, D61254, R28735, T41289, AL044529,
AI546999, AI541523, AI557731, AI546891, AL047131, R29177, AI547039, AI525306, AI526073,
C16300, T11028, Z28355, AI557807, AL043444, AI546945, AI541017, AL039643, T23888,
T23985, AI557262, AI525320, C16305, AI541307, AI526140, AA585453, AI541390, AI557787,
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AI541013, D57491, AI546875, AI541508, AI546855, AI536138, R29218, AI541534, AI557238,
AI525328, AI541510, AI526184, D55233, AL045211, AI526187, AI541345, AI526194, AJ239433,
D57186, C15189, AI541205, C14723, AI557734, AA585155, AI557796, AI541509, AI526196,
AI525653, AA585356, AA283326, AA585434, AL044227, AL036230, AI535660, AI557727,
R28895, C16293, AI540920, AF082186, AR038762, AR062871, A85395, A85476, AJ244004,
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A91750, Y16359, A84772, A84776, A84773, A84775, AR037157, A84774, AR067731,
AR054109, AR067732, A86792, A58522, D78345, AJ244003, A81878, A64973, I15353, E14304,
I44516, E16678, A58524, I25027, A58523, I26929, I44515, I26928, I26930, I26927, AR009151,
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AR031566, A77094, A77095, AR031374, I00682, A92133, A95051, A49700, A38214, A35537,
A35536, A11624, A11623, E00609, I18895, A02136, A04664, A02135, A04663, E13740, A11178,
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HHEDB31	2256	1 - 589	15 - 603	T70593, AA484366, AI811076, AA658101, AA452879, AI261932, AI371165, N55560, AI863180, AI111171, AC005523, AC007193, AC004084, Z83840, Z98742, AL133245, AL049843, AC002116, AP000510, AL022396, AL021394, and AL096701.
HHEDH57	2257	1 - 655	15 - 669	W19045, N57242, N41553, and AC000119.
HHEDJ94	2258	1 - 509	15 - 523	R80434, AA531428, Z82215, and Z95114.
HHEDM03	2259	1 - 448	15 - 462	AA553409, AI762528, AA167656, F16848, AA593168, AW103030, AI925065, AI823705, H12857, AI824476, AW088631, AC005015, AC004859, AC004000, AC006271, AL133353, AC005288, AA828592, AW088631, AC005015, AC004859, AC004000, AC006271, AL133353, AC005288, AL008719, AP000552, AF207550, AC000940, AC005911, AC004821, AL031848, Z81364, AC004087, AC002456, AL022163, AL035071, AC004686, AC005695, AC000025, AC005330, AC002565, AP000167, AP000556, AC003963, AL035089, AC005859, AP000502, AC005041, AL031230, AF135187, AC005696, AL049569, AC008372, AF047825, AF134726, AB023059, AC007878, AC005612, AC005519, L78810, AL049869, AC002544, AL049694, AL035086, U80017, AC005484, AC006449, U73169, AL035587, AL050307, AC002347, AL049839, AL031311, AC002316, AL049780, AF111167, AL109952, Z93241, AC007226, AC004832, AC002350, AL050318, AC005203, AC006960, AP000122, AP000509, Z97056, AC007934, AC010170, AC005531, AL034420, AC006111, U95742, AL031685, Z99716, Z68223, AL022316, AC005089, AL022326, AP000359, AC003025, AC002425, AC005362, AC007551, AC000159, Z85987, AC006285, AL121578, AC004583, AL022345, AC006538, Z95152, AC007216, AC012627, Z83822, AF139813, AP000326, AL109798, AC005846, AL079340, AC005736, AC004797, U91321, AC007160, AC004999, AP000113, AP000045, AC007041, AP000169, AP000054, Z84484, AL023803, AL023553, AL049776, AP000300, AC004228, AL023807, AC005180, AC004520, AC005913, AC007536, AC005567, AC005527, AC006121, AC005399, AF036405, AC005839, AC005529, AC007055, AL009181, and AL035422.
HHEDN93	2260	1 - 360	15 - 374	AI279905, AI859460, and AA353599.
HHEDO53	2261	1 - 59	15 - 73	AA975530, AI376755, AA931603, AA830053, AA912944, AA926705, AI445635, and AA954467.
HHEDO74	2262	1 - 432	15 - 446	AA975530, AI376755, AA931603, AA830053, AA912944, AA926705, AI445635, and AA954467.
HHEDP88	2263	1 - 371	15 - 385	AA297299, AI990951, AA412438, AA150262, AA937163, AA757561, N32544, AI126496, AA872939, and R61273.

HHEIDR27	2264	1 - 563	15 - 577	U63127.
HHEIDW03	2265	1 - 421	15 - 435	
HHEDW58	2266	1 - 509	15 - 523	AL132712.
HHEEC07	2267	1 - 2410	15 - 2424	AW271777, AA418212, AW026172, AW080197, AW150080, Z99393, AW296033, AI738581, AA452203, AA418041, AA028164, AA035728, AW138718, AW027368, AI861850, AI149306, AA194725, AA845357, AA521437, AA394270, AW003395, AI961396, AA476994, AI815175, AA621790, AA29279I, AI917710, AI580942, AI831206, AI422238, AI337202, AI684220, AI738685, AI769662, AI363149, AI372022, AA149978, AI459301, AI916905, AA426479, AI090412, AI333285, AA195566, AA477023, N26319, AA453007, W79139, N80051, W74464, N27382, W17034, AI536804, AI336594, H83596, AI524485, AI092161, AW087165, AW439123, AA829164, AW192237, AA765990, AI803792, AI253581, AW196349, AA160311, W07012, H96016, AI963237, AI915904, C16527, AI468579, AA379225, C16442, AI867613, T23879, AA918013, AI224581, AI224589, AA373431, AA639187, AW261888, AA894881, H43838, AA081258, AW088913, AW024050, D61727, H96017, AW160880, AW161522, AW161495, AI090929, N89775, Z99394, C21261, AI687157, AI620764, N39762, AI814820, AA354795, AA476912, AI624528, N79269, D25568, AF064257, D38517, and AC004222.
HHEEC61	2268	1 - 262	15 - 276	AF200630, AF201372, and AL022313.
HHEEK88	2269	1 - 522	15 - 536	AI261872, AI679138, AI434461, AI379427, AI679712, AI963616, N98728, AI823643, AI769963, AA855094, AW294343, AA398469, AI341436, AI660067, AA970537, AI682850, C01626, AA401874, AI985926, R71022, AA772273, W31010, AA705992, AI862548, T26896, and AF085849.
HHEEL47	2270	1 - 535	15 - 549	AI703499, AA494263, AI002734, AI054352, AI273847, AI580250, AI253382, AA502991, AA728812, AA811208, AA834707, AA594072, AA654661, AA452325, AA484143, AI674840, AI922930, AI205009, AI002941, AA862243, AA579205, AA747540, AA776646, AW327624, AA515728, AA486559, AA442176, AW084246, R81017, AA436796, AA297538, AA582463, R62710, AL079734, AA984187, AA448897, AC007055, AL049780, AL133500, AC004765, AL031685, AC004466, Z83840, AC004099, AL031177, AL049610, AL121825, AC004682, AC007103, AC004655, AC006312, AC006543, AC006367, AC006137, AC007387, AC006544, AC004984, AC006531, AC005669, AL031428, AL031283, AL024498, AC006166, AC007214, AP000337, Z81364, AC006115, AL008633, Z99716, Z93783, AC005722, AC006365, AB023051, AC007225, AC006978, AL035420, AC003037, AP000961, AC007193, AP000512, AL031662, AC007842, AF011889, AB023048, AL034425, AP000511, Z97054, AC005190, AL034420, AC004217, Z84469, AC004552, U91322, AL035697, U91327, AC005146, AC002080, AL033525, AP000704, AL133445, AC003043, AL035697, AC005696, AP000513, AC009743, Z97630, AL121769, AJ229041, U07563, AC008154, AC004605, AC002542, AC005682, AL009182, AC004685, AC007285, AP001052, AL133163, AL009174, AC005065, AC005212, U78027, AC007090, AC006271, AC003950, AC005701, AC005937, AC007707, AC007226, AC006538,

Clone	No.	Range 1	Seq	Range 15	Accession Numbers
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HHEFB29	2271	1 - 532	690073	15 - 546	AW402864, AC005756, AL096767, and AC000119.
HHEFB73	2272	1 - 432	947568	15 - 446	AL039087, AL037259, AA362688, AA362689, T29199, AA362690, A49045, I07209, AR067734, I07249, AR068508, AR068510, AR068509, A63954, I09267, I09270, I09268, I09269, A49701, I09252, I09251, A29109, A32111, AR068550, A23373, AR068551, A94048, A94061, AR035224, A94046, A94054, I58322, I58323, E01324, I08638, A27169, A27170, A39929, A83151, AR038307, AR038321, AR016495, I66495, I66494, I66498, I66497, I66496, I66486, I66487, A93936, I91969, Z96177, E01619, E01239, E01561, A92081, A92080, A92077, AR067733, AR038306, AR029418, A92078, A92079, AR029417, AR038320, AR027319, A91752, A91751, A70359, AR067731, AR027318, AR054109, AR067732, AR038066, AR064436, AR051651, and AR051652.
HHEFK12	2273	1 - 317	966292	15 - 331	
HHEFL47	2274	1 - 356	973094	15 - 370	
HHEFZ58	2275	1 - 366	735615	15 - 380	AA010070, and AI870529.
HHEGA66	2276	1 - 247	969467	15 - 261	AL022318, and AL031846.
HHEHC74	2277	1 - 725	974406	15 - 739	
HHEHD94	2278	1 - 306	964103	15 - 320	AA314262, and Z84466.
HHEHU73	2279	1 - 432	923895	15 - 446	
HHEHW78	2280	1 - 579	973140	15 - 593	AC006468.
HHEJH19	2281	1 - 512	973230	15 - 526	
HHEJH30	2282	1 - 536	961974	15 - 550	AW277207, AW157157, AI816301, AW277157, AW156950, AA313026, AI313177, AW163128, AW161415, AI382960, AI201561, AA773272, AA826520, AI267630, AW081919, AA731178, AA017675, AW390380, AI222064, AW390751, AF180920, AF159159, and AF030091.
HHEJY91	2283	1 - 521	974407	15 - 535	AA904211, AW304580, AA515728, AA833875, AA833896, AA526099, AA515351, AI733856,

AI923451, AI635028, T74524, AI732789, AI078409, AA644090, AI813783, AA602906,
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AI457596, AA225890, AA679194, AI962030, H69661, AI819994, AI251576, AA862183,
AI821768, AA492264, AW300749, AI537397, AI858814, AI493264, AI628224, AA578621,
AW021083, H68343, AI792304, AI821200, AI290311, AI925869, AI362415, AI791475,
AI690750, AI754170, AI828275, AI053978, AA228778, AW069357, AI753849, AW075729,
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AC005839, AL031432, AC002301, Z94056, AC007934, AC005015, AL109798, AC007421,
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AL049569, AC012627, AC005330, AC008040, AL031733, AC002549, AC006064, AL031662,
AC003963, Z86090, AC004821, AC005821, AP000032, Z82244, AC005488, AC008372, Z83844,
AC005480, AC005921, Z99128, AC004646, AC006333, AC005486, AC007041, AL022394,
AC006017, Z85987, AP000704, AC004834, AC005914, AF111168, AC007182, AC005089,
AC004797, AC002119, AL139054, AC007546, U91321, Z84487, AC003669, AL049869,
AC003982, AC007277, AB023060, AF134726, AC009028, AC004195, Z97832, AC002400,
AC004263, AC006111, Z98884, AC008018, U91326, AC016025, AC007283, AC006530,
AC005049, AC005519, AC007055, AC004685, AL079342, AC000353, AC005237, AC000035,
AC002352, AF001549, AF196779, AC007630, AL031597, AL049636, AP000008, AL022069,
AC004832, AC004841, AL024507, AC005527, AL133163, AC007371, AL121603, AL022316,
AL031289, AL034423, AC007537, AC007242, AC002072, Z82217, AC002551, AC004662,
AL021579, AC004858, Z83845, AC005011, AC006210, AC004477, AL008725, AC007938,
AC003029, AP000510, AL031659, AC006372, AC004383, AF001548, AC005264, AC007845,
AC007191, AC002128, AC007312, AC004156, AL109952, AC005566, AC007050, AC007227,
AC006515, AL031589, AC005902, AC011311, AC007193, AL050307, AC005332, AC005291,
AF196970, AC007536, AC005520, AC006121, AP000346, AL035685, AC007690, AL109801,
U78027, AL109865, U95740, AL035587, AC007731, AF042484, AC005500, AP000503,
AC002126, AL049692, AC007542, Z49258, AB020861, AC006449, AC005696, AC003036,
AC004099, AL023876, AC004447, AB002059, AP000047, Z84469, AC004033, AC003108,

HHEKG10	2284	961957	1 - 399	15 - 413	AL096701, AL021878, AE000658, AC004024, U85195, AP000151, AC007766, AF038458, AC005581, AC008132, AL031295, Z93848, U91318, AP000115, AC006285, AC007993, AL117351, AL049867, AF129756, AC005859, AC003046, AP000252, AC005585, AL035530, AP000103, AC006062, AP000694, AC005726, AC008044, AC005412, AC016830, AL049795, AC007425, AL049761, AC000953, and AC004835.
HHEKJ20	2285	918032	1 - 214	15 - 228	
HHEKJ27	2286	858384	1 - 478	15 - 492	
HHEKK06	2287	933849	1 - 459	15 - 473	
HHEKP61	2288	913413	1 - 1448	15 - 1462	AA679016, AW408019, AA251937, AW407984, AI623302, AI431307, AI431316, AW392670, AI432644, AW372827, AI791349, U46349, AI432653, AI431243, AW081103, AI432655, AI432654, AI432650, AL042433, AW384394, AL134536, AW363220, AI432661, AI431255, AL042551, Z99396, AI432677, AI431337, AL119401, AI432651, AI431230, AI431328, AI431310, AI431312, U46351, AL119355, U46345, AI492510, AI431347, AL119497, AI431358, AL039912, AI432657, AI431354, AI431330, AI432649, AI432647, AI432675, AL119483, AI431247, AI432643, AI431248, AI431330, AI432662, AI432665, AI492519, AI431314, AL037205, AL035530, AR066494, AF019249, AB026436, AR060234, AR054110, Y17793, A81671, and AF064854.
HHEKS53	2289	973233	1 - 449	15 - 463	AA338228, AA599423, AI289850, AI275183, AA584125, AI583291, AI571543, AL031293, AC005207, AL109758, AF111168, AL034402, AC005183, AC005348, AC005790, AC005229, AF134726, Z97630, AL049836, AL022316, AC004024, AC006487, AC016027, AP000503, AC016830, AB009667, Z83838, AL031228, AC005821, Z98743, AC005839, AF064860, AC004820, AC005291, AC005863, AL096706, AC004865, AC007324, AC007917, AC008101, AC004079, Z84483, AC008079, AF111167, AL021154, AP000098, AL034423, AL031311, AC005318, AC004000, AL022312, AD001502, AC005482, AC005399, AL022726, AC004020, AC007227, AL049764, AL031053, AL121754, AP000355, AC004805, and AC006536.
HHELD03	2290	868495	1 - 883	15 - 897	
HHELD11	2291	974419	1 - 172	15 - 186	
HHEMA34	2292	704035	1 - 354	15 - 368	H09835, and R61607.
HHEMA65	2293	719229	1 - 286	15 - 300	
HHEMD28	2294	858303	1 - 371	15 - 385	H66688.
HHEMK21	2295	670784	1 - 443	15 - 457	AA150780, AA341445, H65527, N28990, AA972976, AA359399, T55030, AA287792, AC009330, AC009542, AC003689, and AC003678.
HHEMN76	2296	752947	1 - 437	15 - 451	
HHEMO91	2297	790100	1 - 257	15 - 271	
HHEMQ56	2298	858289	1 - 363	15 - 377	AJ230802.
HHEMQ58	2299	952989	1 - 508	15 - 522	AL109748, and AL078614.

HHENC18	2300	666335	1 - 412	15 - 426	
HHEND28	2301	468911	1 - 500	15 - 514	AL109827.
HHEND45	2302	919630	1 - 338	15 - 352	AC002390.
HHENE18	2303	806606	1 - 500	15 - 514	
HHENE38	2304	662972	1 - 432	15 - 446	AC004585.
HHENE47	2305	720255	1 - 382	15 - 396	
HHENG31	2306	917904	1 - 622	15 - 636	AI266255, AI302710, AA505091, AI076214, H82739, N30416, AA758853, H83614, AI362648, N79746, T77931, AW013896, T77853, and AL031291.
HHENH93	2307	691023	1 - 377	15 - 391	AA595183, H29208, H29209, and AF102777.
HHENO53	2308	709078	1 - 289	15 - 303	
HHENQ16	2309	661841	1 - 547	15 - 561	
HHENR11	2310	966906	1 - 936	15 - 950	AW007450, AW021951, R56093, AI809818, AF118885, AC002468, AL109627, AC005004, AC005562, AC008273, AC005082, AL034555, AC004815, L44140, AC006023, AL133243, AC018633, AC006538, AL132712, AL080243, AC005839, AC007666, AC007041, AC006137, AL031983, AC007546, U85195, AC005703, AL132857, AC005488, AL009179, AC005563, AC005104, AC004019, AP000704, AC007738, AC005252, AL031595, AL008582, AC006077, AF043945, U07563, AL109963, AC007182, AP000295, AC006049, and AC008041.
HHENR78	2311	773537	1 - 417	15 - 431	AC005326, and AC004924.
HHENV38	2312	657383	1 - 401	15 - 415	AI990739, AI927951, AI989475, AI990284, AI082831, AW295986, AI798629, AI380475, AA777280, AI350438, AI867928, AW194833, AI478440, and AI758120.
HHENZ86	2313	670837	1 - 436	15 - 450	
HHEOF20	2314	861457	1 - 347	15 - 361	T63737, and AC004755.
HHEOF58	2315	841978	1 - 483	15 - 497	
HHEOG17	2316	662948	1 - 342	15 - 356	
HHEOG67	2317	588154	1 - 326	15 - 340	
HHEOI18	2318	677891	1 - 381	15 - 395	AA976063, AI689977, AI291003, AA379679, AI796262, AA889834, AA147542, AA383327, AI857560, AA234045, R81076, AI924779, AA826483, AI368773, AA190557, AI689857, AI041119, AI703295, AI802472, AA349132, R25344, R23959, AI360000, W60453, AI557581, and AF048977.
HHEOJ10	2319	911814	1 - 450	15 - 464	AW385142, AW375056, AW062951, W19655, and AA452790.
HHEOL59	2320	588168	1 - 519	15 - 533	
HHEOX60	2321	734311	1 - 400	15 - 414	
HHEOZ17	2322	793087	1 - 393	15 - 407	
HHEPD46	2323	718950	1 - 550	15 - 564	AI653678, T60029, N58301, AW162128, AI859744, AI273990, N73203, AA506744, R85174, AA366676, AI879951, AA653291, R32162, AW166824, AI018726, R93026, AA811150, AA577719, M77867, AA744993, H78281, AW189401, AA737523, AA642823, AA632565,

AI671077, AI017733, AI709211, AW272389, N83628, AA614647, AA303054, AI445914, AW151870, AA814878, AA354695, AI819391, AA402638, AI926728, AA340911, R83708, H04195, AL039761, W61253, H48603, AI264579, AA493533, AA831345, AA774098, AI270280, AI446127, AA778962, R76395, AI349130, W26972, AI310670, W76645, AI679871, AA354677, AI804546, AA176809, AW277064, AI679294, AA601290, AA526413, AI904944, T51743, AA713720, AI567676, N76251, AA719769, AA102737, AA501450, N70222, AA513189, AA664924, R97635, AA525517, AW237905, AW020198, AA666138, W24312, AI733523, AI918575, AI469468, AA230155, T59956, AA558404, AI075149, AI627917, AA309457, AA515727, AW008217, AA725642, AA077637, AW247338, AI872229, W96277, H83136, AA376358, W04964, AI523540, AW167202, AI306624, AI096738, AI871691, AI241637, AA020873, AC006084, AC004820, AC003051, Z83844, Z68128, U52112, Z81364, AC005393, AC005482, AC007371, AC005031, Z93096, AL035413, AC002470, AFI69122, AC010077, AL031255, AC004841, Z97196, AL031666, AI021154, AL009172, AF095901, AL021578, AC004137, AC004985, AC004035, AC005362, AL109952, AC000025, AC007537, AC002991, AC004777, AC006277, AP000349, AC002117, AL031662, Z93244, AL096712, AC005702, AC005527, AC006368, AC005237, AC005529, AP000501, AC007390, AF031078, AF030876, U80017, AC005922, AF109907, AF001551, AL022334, AL034548, AL133448, AC005737, Z86001, AC002550, AC004913, Z94055, AC004491, AL139054, Z82202, AF196972, AL009179, AL024498, AC005682, AP000553, AC007917, AC004650, AC005288, Z83840, AL031848, AL096791, AC007938, AL049553, AC005081, AC005015, AF001550, AL049849, AC006486, AC004134, AC004815, Z98044, AC005295, AF064861, AC004966, AL135744, U91322, AC002302, AC005559, AC004530, AJ009610, AP001060, AL031060, AL035462, AC005606, AC004079, AP000347, AL031589, AL023653, Z97056, AF207550, AF111170, AP000346, AC007688, AC005921, AC005829, AC005409, AL022238, AC002045, AC005320, AL049839, Z82193, AC004812, AL031985, Z94802, AC004983, AC004496, AC004645, AC006388, AC008115, AC004890, AC006111, AC005257, AP000502, U91318, AF134726, AC006130, Z97183, AL021394, AB023050, AL031291, AC012099, AC005082, AP000511, AC003037, AL049636, AC006541, Y12855, AC002984, AD001527, AC002558, Z91241, AL034402, AL034429, AJ006996, AC007263, AC005899, AP000306, AL031230, Z99716, AC002306, AP000047, AL008712, AL022315, AP000115, AC005244, AL031117, AC007384, AC006079, AC006112, U85195, AC005539, AC005703, AJ239318, D87009, AC003043, AC007880, Z80232, AL022719, AC002107, AC002106, AL031730, AL022311, AC004771, AC004596, AC005102, AC004016, AC004891, AP000345, AC003007, AL096801, AC007376, AC005019, AC005632, AP000308, AC007792, AC003047, U51561, AC005602, AL049747, Z75890, AC006930, AC005932, AC005551, AC008989, L47234, AL096703, AP000048, U95739, AC003692, AC002316, AC002126, AL034421, AC003104, AC005911, AL022327, AC005231, AC005377, AC005004, AL023281, AC004702, AC002310, AL132712, and Z82214.

HHEPD73	2324	966828	1 - 548	15 - 562	AW102944.
HHEPF31	2325	858269	1 - 355	15 - 369	
HHEPG15	2326	659664	1 - 548	15 - 562	AF150253, AI743143, X85654, and AF161548.
HHEPK28	2327	686489	1 - 342	15 - 356	
HHEPM73	2328	683270	1 - 414	15 - 428	AA505298.
HHEPN44	2329	716494	1 - 928	15 - 942	R10189, AI984168, AA583386, AW020198, AL042670, AI917132, AI003469, AI915081, AI310670, AA324108, AW247338, AI612070, AA614254, AI611533, AA224889, AL044701, AI310787, AA904211, AI889995, AI828721, AI653999, AW082104, AA468505, AA182873, AA487209, AA644090, AI962030, AI349130, AA613624, AA557945, AA525331, AA640104, AA728954, AI792092, AI821056, AI821805, AA493808, AW270385, AI732720, AA551519, AA232928, AA230025, AI653776, AI734119, AI114494, AL120282, AA640305, AA653139, AW020094, AW021015, AA259267, AI567676, AC005295, AC005067, AL035681, AL022316, AC003108, AC002351, Z99714, AC004019, AC005102, AC002554, AL031281, AC003041, AC005520, Z95115, AC006285, AC005632, AC005972, AF001549, D88268, AP000553, Z95116, AC004448, AL033527, AC005004, AC016025, AP000555, AC005529, AC007510, AL133448, AC004859, AC005280, AD000092, AP000501, L44140, AL009181, AC009498, AC005527, AL121658, AL023879, AC009247, Z93244, Z85986, AC004913, AC005228, AC005288, AL031311, AC004834, AC005081, AP000503, AC005250, AC005231, U89335, AL133246, AC005808, AP000263, AC004263, AL135960, AJ131016, AL121655, AC004098, AC005670, AL022721, AC005089, AL050307, AP000104, AC007919, AF207550, U52112, AL049758, AC002347, AL008706, U07561, AC004601, AC002300, AC004000, AL121754, AC006965, AP000036, AF111169, AL049692, AC006511, Z97056, AP000133, AC005900, AC004526, AJ003147, AL132992, AL035684, AC002310, AC006449, AP000691, AC005684, AC002091, AC005277, AL096791, AL031230, AL049757, AC007240, AL031289, AC005011, AF053356, AC006347, AP000688, AC005519, AL139054, Z95113, AC006372, AC005071, AF196779, AC004876, AC006006, AC005412, AP000116, AF134726, AC005409, AC005880, AL078581, AC004967, AC005015, AL034400, AL022326, AC005484, AC004962, AL121748, Z93241, AC004973, AC006468, AC005746, AC006014, AC007938, AC005006, AC004897, AP000511, AC005618, AC004797, AL008718, AL121653, AC005488, AC007055, AC003109, AL022329, AC005300, AL133163, AL049636, AL109967, AC005924, Z73979, U95739, AC004929, AC005595, AC005933, AC004799, AC007676, AC002381, AC007390, AC006241, AC005535, AC006277, Z75407, U78027, AC004125, AC005856, Z94044, AL020093, AC005057, AC007536, AC005086, AF205588, AC002126, U47924, AL133353, AL031432, AP000696, AC007436, AC005694, AP000947, AC003956, AC005013, AC002544, AC005041, AL096677, AF109907, AL049835, AP000045, AP000113, AC008372, AL121595, AC003030, AC004765, AC004805, AL031602, AL035588, AL049694, AL034418, AL035422, AC007546, AC005940, AC004815, Z83840, AF015416, AC006064, AC002477, AC003042, AL109865,

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HHEPR14	2330	869381	1 - 640	15 - 654	W86315, and AI674685.
HHEPS91	2331	493744	1 - 552	15 - 566	AA021393, F04252, AI133083, AI783911, AA557945, AA535216, D44672, AA773463, AI143051, AA602017, AI355246, AA488746, AA828637, AI355559, AA676592, AA904275, AI249365, T52772, AA484892, AW419389, AA649642, AA828834, AA533176, AA180056, AA601356, AI813957, AA069389, AI281818, AW089950, AI627917, AI753536, AW277109, AA745524, AI821716, AA568314, N95817, AI356440, AI620585, AA491423, AA355367, AA610433, AI635677, AI754293, AW028950, AI623764, AW104788, AI872503, AA579188, AI810584, AA744465, AA745470, AA744449, T47138, AI242502, AC004752, AC009275, AC007955, AC005229, AL049832, AC008009, AC005527, AC005529, AC002425, AC003108, AL031681, AC004019, AP000014, M13792, AC007386, Z99716, AC002543, AC007055, AL008582, Z83844, AC005180, AB020865, AC010205, AC004876, AC005409, AC000025, AC005510, AF001548, AC006312, AL049759, AL096701, AL049869, AC007731, AF134726, AC007161, AL121603, AC005500, AC004984, AL121769, AL008718, AL121658, AC006449, AC005156, AC004655, AL033527, AL022320, AF019413, AP000212, AP000134, AC005089, Z98884, Z97196, AC005081, AC002456, AC007687, AL049776, AL117694, AF111168, AL133163, AL034417, AC005823, AC006511, AC005328, AC005971, AC009247, Z98304, AC000353, AC004067, AC007666, AC004796, AC006468, AC007376, AC008124, AC012627, AC005015, AC005899, AL021407, L78833, D87675, AC002432, AC006578, AC004859, AL021154, AC007216, AL035659, AC007688, AJ003147, AL121653, AL031074, Z84469, AC007263, U80017, AL133245, AC002302, AP000509, AC004686, AL031295, AC004103, AC007546, AL135744, AP000030, AC002477, U91323, AP000501, AC000004, Z84467, AL050343, AC005722, AC002553, AC007367, AL096678, Z98257, AC008372, AL139054, AL022313, AF109907, AC007226, Z98751, AC002400, AP000141, AL049757, AC000052, AC006211, Z86090, AC005011, AL035249, AF205588, AC004895, AC007308, U91318, AC004253, AL022336, AC005962, AL031668, AC004821, AL096710, AL121655, AP000045, AC005519, AC006285, Z98949, AC007283, AC004106, Z93023, Z83822, AL024498, AL022238, AL034420, AL021395, AC005972, AC006536, AC004883, AC008040, AC007277, AC005041, AC007566, AC006538, AC005332, AC002350, U91322, AC005484, AC004832, AC006559, AL022721, AL031273, AC005209, AL009051, AP000553, U52112, AC005291, AC005531, AC005358, AL022719, AF064858, AP000555, AC006121, AC000003, AF001550, AC005696, AC016025, AC004622, AC006077, Z97183, AC006059, AC008015, AC005746, AC002991, AC002470, AC008079, AC005874, AF134471, AL133246, AC005037, AL035423, AC003043,

HHEPZ10	2332	963715	1 - 155	15 - 169	AC005145, AL031672, AC004526, AL132777, AL121852, AC004598, Z82198, AP000349, U47924, AC005632, AL049830, AL034549, AC002312, U91326, AC002299, AL049874, AC004813, AC007371, AC005620, AC006023, AL035460, Z97056, AC007444, AC007540, AC005233, AC005535, AC005815, AL020997, AC002404, AC005288, AP001051, AC006080, AC003041, AC004659, AC009516, AF207955, AC005488, AL049576, AC006064, AL080243, AC006251, AC006160, AC002301, AC006597, AL080317, AC006132, AC004851, AC005049, AL133500, AC007676, AC003104, AC004263, AC003101, AC006241, and AL031594.
HHEQB17	2333	918056	1 - 408	15 - 422	
HHEQB47	2334	841899	1 - 464	15 - 478	
HHEQG21	2335	934680	1 - 457	15 - 471	
HHEQG45	2336	717303	1 - 306	15 - 320	
HHEQG52	2337	956214	1 - 191	15 - 205	
HHEQG72	2338	922619	1 - 329	15 - 343	
HHEQG75	2339	766960	1 - 387	15 - 401	
HHEQG86	2340	784752	1 - 375	15 - 389	Y17793.
HHEQH63	2341	744596	1 - 386	15 - 400	
HHEQI07	2342	952416	1 - 227	15 - 241	
HHEQI11	2343	966293	1 - 408	15 - 422	T89011, and AL047171.
HHEQI82	2344	728596	1 - 370	15 - 384	AA659367, and AA661891.
HHEQI89	2345	786607	1 - 173	15 - 187	
HHEQK01	2346	871911	1 - 582	15 - 596	AA489782, and AF129078.
HHEQO36	2347	707926	1 - 445	15 - 459	
HHEQP38	2348	709076	1 - 394	15 - 408	Z98256.
HHEQP83	2349	780397	1 - 676	15 - 690	AA720645.
HHEQQ47	2350	699160	1 - 428	15 - 442	AF104235.
HHEQS17	2351	662203	1 - 499	15 - 513	
HHEQU09	2352	755007	1 - 451	15 - 465	
HHEQV03	2353	923324	1 - 475	15 - 489	Z27104, AA947563, and AI123214.
HHEQV39	2354	932851	1 - 873	15 - 887	AA355773, and AA355926.
HHEQX60	2355	915561	1 - 453	15 - 467	
HHEQY32	2356	698633	1 - 365	15 - 379	AA353703.
HHERA17	2357	858239	1 - 257	15 - 271	
HHERB03	2358	933271	1 - 422	15 - 436	AL041364, AA581202, H22202, AA573189, AI623423, AI889612, AA130055, AI298936, AA688189, AA026119, AL046322, H82057, AA301758, and AL049795.
HHERB04	2359	854112	1 - 1070	15 - 1084	AA102072, AI124666, AA136417, AF169548, and AC004099.

HHERN11	2360	966003	1 - 363	15 - 377	
HHERO39	2361	858238	1 - 426	15 - 440	
HHERO95	2362	928142	1 - 1324	15 - 1338	AI761092, AW088116, AI660060, AA460070, AI823894, AI377047, AA833746, AW022132, AI660032, AI573194, AA938309, AA741093, AW294514, AA856722, AA459978, AI635527, AA948449, AA767492, AA311065, AW183379, AI167213, AA621378, and AL133101.
HHERQ04	2363	925697	1 - 504	15 - 518	
HHERQ50	2364	858049	1 - 793	15 - 807	AA151636, AA478851, AI018742, AI335888, AI268195, AA479950, AI436179, AI268216, AA360626, AW362452, and AA021655.
HHERU77	2365	934167	1 - 473	15 - 487	AW276744.
HHERV38	2366	933142	1 - 440	15 - 454	
HHERX04	2367	925700	1 - 643	15 - 657	AA749124, AW024899, AI738779, AW298129, AI936218, AI472304, AI418577, AI309755, AI081335, AI809820, AA016255, AA054132, AI024619, AA905716, H21932, AA256702, N79804, N77846, N77838, AI874019, AA872041, and AC004895.
HHESF07	2368	952214	1 - 588	15 - 602	AI248073, AA235254, AI658612, and AA250935.
HHESG02	2369	918639	1 - 316	15 - 330	Z73495.
HHESH33	2370	893701	1 - 482	15 - 496	
HHESI92	2371	792431	1 - 241	15 - 255	
HHESJ03	2372	922998	1 - 569	15 - 583	
HHESK56	2373	779164	1 - 534	15 - 548	
HHESN02	2374	918634	1 - 390	15 - 404	AF085233, and AF169035.
HHESO94	2375	793390	1 - 607	15 - 621	AF150222, and AF161351.
HHESP87	2376	858224	1 - 671	15 - 685	AA598870.
HHEST60	2377	858220	1 - 300	15 - 314	AL023584.
HHESU02	2378	918668	1 - 490	15 - 504	AP000689, AC006312, Z84466, AL080243, AC005722, AF064861, Z83822, AF001549, AB026898, AL031311, Z84480, AL035681, AL096763, AC003071, AB003151, AC002310, AC005796, AC003101, AC005081, AC005049, AC004031, AP000499, Z82203, AL022336, AC004526, Z83847, and AC004448.
HHESU03	2379	923030	1 - 671	15 - 685	AI929353, AA310170, and AW401881.
HHESU54	2380	926341	1 - 412	15 - 426	
HHESU85	2381	783820	1 - 324	15 - 338	AA804825, AA113301, AW264764, AI580548, AA130859, AA581238, AI805438, T66032, AA533703, AA578089, AW265073, AI963514, AW274078, AA494038, AA984263, AA630834, AA601318, AA341817, R42117, AA811489, AW402458, R64204, AL138271, AA486106, AA708021, AA069589, AA470544, AA059369, AA339011, R43218, AI057350, AI354862, AA628627, AA857296, AA814527, H46593, AW327868, AA584513, R15075, AA810200, AL009029, AC008134, AC006965, Z97181, AC004104, AP000018, AC004791, AC005881, Z97055, Z85996, U91321, AC004167, AL034548, AL023284, AC005067, AC004895, AC006211,

HHESV46	2382	935074	1 - 511	15 - 525	AC003042, AC008062, AC005620, AL021407, AL078472, AC002487, AL080245, AF038458, AF064858, Z83846, U52112, AC005184, AC007182, AF015720, AC005829, AC006050, AJ229041, AC007688, AC004752, AC004125, AC004934, AC003035, Z84814, AC005358, AL034417, Z98044, AC005598, AL109753, AL031665, AC006065, AC006120, AL009183, AL008729, Z93930, AC006454, AC005913, AC002300, AP000023, AC005666, AL133448, AP000511, U89337, AC005668, AC004381, AL008638, Z95115, AC005015, AL035457, AL096791, AL008720, AJ251973, AC004876, AC004938, Z83733, U95743, AC005736, AC004864, AC004887, AL049749, Z97353, AL022318, AL034549, AC004231, AC005102, AC003687, Z72006, AC004750, AC005820, AC006039, AC004816, AC004967, AF126403, AL035695, AL020995, AC010206, AC005177, AC005094, AC004806, AL117338, AC004962, AC008123, AC002302, AC007546, AC004991, AC003010, AC007993, AC005553, U07563, Z95114, AC007115, AL109984, AC006538, AC005224, AC005386, AP000216, AC004794, AC006040, AC016831, AC005295, AC007686, AC002351, AL034429, AB023054, AC007225, AC005220, AL031650, AC005831, AC007073, AC007157, AL096772, AP000265, AF015416, AC007773, Z82198, AL133445, AF130343, AC005808, AC005277, AC004663, AL049830, AL031767, AP000034, AP000101, AC009363, AC004659, AC005291, AC004584, AP000240, AC004693, AC006060, AC004551, AC005822, Z82189, AC004609, AC007193, AC007297, AL079342, AL109653, AP000208, AP000130, AC006162, AL031681, and AC002347. AA569179, AA299351, AI679759, AW238495, AI246061, AI054090, AI620266, AI298079, AI185394, AA856866, AA434346, T08386, AI114494, AA582746, AA192293, AA657910, AA768179, T06292, AL039309, AL037856, AL042373, AA741301, AI251241, AA527109, AI630894, AI284543, AI254770, AI251944, W96277, AI251034, AI251203, AI251284, AW128881, AI590404, AI250552, R35259, AA020873, AA579399, H43183, AI479068, H16875, AW408767, H24957, AA502688, AA846923, D82321, F08214, T41134, AA744095, AA662614, F37201, AI249853, T05617, AW019964, AA736713, AI207728, AI285493, AA878407, AI223626, AW303098, AW341882, AI889579, AI345394, AA484892, AI445373, AI348780, AL038977, AI671077, AI143653, AL036909, AA654535, AA484298, AI973173, AA363957, AA020882, AI707744, AA687542, C17540, AI884861, AI636734, AI078409, AI110685, H90845, AA827383, AW079737, AI439676, AA353168, AW303822, AI421755, AI124779, F17537, AA295893, AA480486, AA295899, AA682536, AI863279, AA410771, AA831919, H63220, AA469230, AA757426, AA714073, AA564256, AI678476, H58891, AI281401, AI860535, T65895, AA507637, AL137946, AI927261, AA244181, AW151549, AI619994, AI821641, AC006360, AC005084, AL049856, AC007655, AC005234, Z73900, AL122020, AL035458, AL132668, AC005768, AL096791, AL132641, AC004996, AC006317, AC006236, AL117338, AL078612, AC004820, AF205588, Z92844, AC005998, Z78022, AC004054, AC006343, AC005996, U80017, AC005993, AL117337, AC004815, AL021368, AC004382, AL078477, AL033525, AC005879, AB017602, AF029308, AC005050, AC004974, D83253, AC007537, U91319, AP000106,

					AC011311, AL133445, AC004053, AC007731, AL009174, AC005500, AC002565, AL023653, AC004905, AC008122, AL030995, ZS4246, AC006987, AC007276, AC004605, AC018769, AC004485, AF126403, AC002480, AC005516, Z97181, AL024497, Z99571, AL078604, AC010205, AF001549, AC006453, AC005610, AL022319, AL117356, AP000279, AC007786, Z83820, AL022162, AC005908, AL049569, AL021396, AC006052, AL135879, AL121790, AP000038, AC004649, AB020869, AC006077, AC005915, AC006160, AC004158, AC002994, AL049650, AC007395, Z93928, AC000120, AL008583, AC006381, AC006572, AC005230, AC008069, AC006333, AC005094, U82672, AC006430, AC005488, AP000500, AC004134, AL109847, Z81369, AF107885, AF064866, AL079295, AC000090, AC005220, AC007444, AC007406, Z82194, AL136504, AL031427, AL008635, AC004955, AL133353, AC005410, AL034402, AL096712, AC007738, AP000301, AC004881, AC005272, AF111168, AF124730, AC004525, AC007238, AF039906, AC002301, AC006459, AC004001, AC005878, AC005095, AC007387, AL049776, AC008984, AC004950, AC006288, AF222686, AB026898, AC008079, AC008125, AC005826, AL136297, AC005881, AL035634, AC006398, AC005030, AC004916, AC006379, AC006254, AL031681, AL049777, AL035249, Z99289, AL022578, AC004694, AC005049, AC005237, AC008179, AL022345, AP000045, Z82203, AC005752, AC007541, AL031672, AL118497, AL050337, AL022329, AC008015, AL118523, Z76735, AC004645, AC009542, AF130248, AC009330, AC004453, AC004712, AC008012, AC005035, AC004448, AC005823, AC002525, AL021578, AC006197, AL021918, AC006544, AC009464, AC007514, AF064865, AP000555, AC005033, AL049836, AC005576, AP001068, AL033504, AP001067, AC002303, AL137100, AC000395, AC005659, AC004692, AC004830, AL022717, Z99943, Z95327, Z99128, AL078603, AJ011930, U89335, Z69890, AC006374, AC003065, AL049833, AL008718, AC006373, AC006111, and AP001054.
HHETA53	2383	858211	1 - 751	15 - 765	
HHETB42	2384	973127	1 - 218	15 - 232	
HHETC50	2385	927000	1 - 368	15 - 382	
HHETD13	2386	858218	1 - 634	15 - 648	
HHETE34	2387	974392	1 - 719	15 - 733	AA722372, AW440545, AI631119, AL038971, AL041706, AL046746, AA812281, AI110760, AA083046, T56253, AA410828, AW151713, N48230, AL048125, AA601157, AA633798, AW075511, AA359347, AA459749, AL135377, AL040382, AW245747, AA724333, AI963600, AW303196, AL119762, AI284640, AW301350, AI669615, AI963720, AI334443, AL119691, AL121235, AW274349, AW102811, AA564634, AI924251, AI791664, AW274346, AI270117, AI493236, AL046409, AI281881, AA503600, AW408707, AL037683, AL041690, AL038705, AA581903, AA478355, AA634889, AI956131, AW193265, AW021583, AI589230, N94311, AI368745, AI367371, AA584167, AI583283, AW238278, AL040921, AA580808, AA468022, AA579366, AI431303, AA806796, AW069625, AA623002, AA587604, AA507824, AW270270, AA491814, AW020992, AA372481, AA490183, AI732865, AA720702, AL046205, AI368256,

					AI350211, AW167374, AW438643, AI919265, AA351056, AI613280, AI860020, AA714433, AA610491, AI708009, AA613227, AI085719, AI471481, AA521323, AI499938, AW405299, AA658362, AI355206, F36273, AI345518, AA488746, AW300625, AC004638, AC003692, AL080243, AC002549, AL121603, AC005527, AC004799, AC016025, AC006539, AC006312, AC002400, AC000085, AC006285, AL050341, AC004686, AC005565, AC005919, AC002126, AC005529, AC004019, Z81369, AF049895, AL022726, AC008372, Z86061, AC007688, AC004490, AC004987, AC002451, AL079295, AC007363, AC005412, AL133245, AC005829, AL022329, AC005295, AC007298, AC005250, AC005740, AC007406, AC004765, U73638, AF124523, AC002996, U95742, AC006544, AC009330, U47924, Z97054, AL022163, AP000553, AC002470, AC006208, AC004890, AC009247, AC006480, AC000358, U75285, AC005815, AC004967, AC006543, AC003958, AL031577, AL022316, AF207550, AC007666, AC000353, AC004963, AP000090, AC004861, AF001549, AL021391, AP000103, AC005037, AC007371, AL031681, AC002115, AP000557, AC006536, AL023284, Z85987, AC003693, AC008064, Z99916, AC007676, AL022326, AC007193, AC006948, AC010202, AC005632, AC005089, AC002404, AC002041, AL035089, AC002301, AC007546, AC004031, AC007565, AC006195, AC007226, D87675, AF111169, AL022166, Z99774, AC005411, AC009516, AC008062, AC007421, AC006059, AC004472, AL031848, AL049539, AC005696, AL008726, AC002429, AC007677, AC006449, AL096701, AL049776, D83253, AL023882, AJ003147, AL021878, AL023513, AC006965, AC008009, AL050318, AC006241, AC002456, AC000052, AC005335, AC007216, AC005763, AL049757, AC002059, Z98051, AL078593, AC005703, AC005839, AF088219, AC005562, AC007878, AL049709, AB020868, AC002064, AC002289, AC004979, AC006057, AC004854, AL049569, AC005940, Z69917, AL022722, AC003101, AC004703, AC005324, AC005067, AL023807, AL133396, AC004593, AC005520, AC006213, AC003029, AC007221, AC004931, AP000163, AC005822, Z84466, AL031785, AC004612, AL031733, AP000313, AF123462, AC006271, AC005844, AL109865, AL035460, AC003663, AC002994, AC006006, AC004025, AL139054, U82828, AC006960, AC004972, AP000252, AC003666, AC016831, AC002564, AC005913, AC006111, AL031276, Z93017, AC010197, AC000025, AC004230, AL009172, AC005971, AC005531, AC005911, AC004087, AC005291, AL109758, AL031662, AL035072, AL021939, AC007055, Z83844, AL031281, AP000050, AC000118, AC005102, AC005409, AL031730, AC004149, AC004650, AC005242, AC004771, AL033527, AC007308, AC004526, AP001053, AL122023, AC005229, AC004895, AF118808, AJ006345, AC002991, AL023581, AC002350, AC005666, AL021578, Z86090, AC006001, AP000217, AP000134, AP000212, AC005484, AC003098, AL022400, AC009399, AC002302, AC009248, AP000476, AC006211, AP000117, AC010205, AL024507, and AC005907.
HHETF07	2388	952218	1 - 321	15 - 335	
HHETF94	2389	793420	1 - 424	15 - 438	

| HHETK07 | 2390 | 848748 | 1 - 1028 | 15 - 1042 | AA181422, AA181363, AA192252, AA194285, AI355246, F31811, AI367551, AI636734, AI828721, AI049630, AW089950, AA535216, AA228442, AI923052, AA480486, AA469230, AI250552, AW162288, AI251034, AI751162, AI254770, AI284543, AI054090, F13749, AW023111, AW243817, AA525331, W45215, AA579278, AA654781, AI251284, AI251203, AI431434, AI249853, AI366180, AA584241, R83708, AI452836, AA553337, AA744272, AW301483, AA745524, AW303098, AA503019, AI753113, AI583106, F30310, AI360514, AI446478, F24745, AA714190, AW193493, AW089625, AA639155, AI709024, AA507837, AI537538, AA779783, AW088133, AI360989, N27874, AA904211, H85808, AA122307, AA2799919, AA654482, AI708005, AW274078, AI680547, AA570555, AA229988, AA599532, AI865807, T41132, AI357976, AI609972, AI884383, AA489856, AA778580, R67701, AL037910, T41164, AW243945, AI865988, AA326410, AI358089, AI580707, AI500552, AI246386, AW117704, AI560085, AI565084, AI597832, AI620992, AA493947, AI310464, AA297789, AA633799, AI370475, AA533408, AA302661, N74629, AW162697, AI696901, AW167154, AA111870, AA297670, T70299, AA947375, AA347382, AW337805, AW270768, AI446205, AI929796, AA580251, AAI130623, AA630535, AW117723, AA601674, AI287921, AA604180, AL041375, AI696793, T40612, N57681, AA514020, T49184, AI885465, AI573009, AI608751, AA425924, F35684, AA102737, AA516320, AW268322, AA878140, AI054418, AI750125, AI816058, C18779, AA371410, AA633875, AI798521, AA862029, AA376358, AI065031, AW439724, AA323085, AA559290, AL039187, AA810837, AW304699, AL135643, H67064, AA558067, AA557770, AI049534, AI434653, R92998, AA847585, R93919, AA628581, T94394, AA235329, AA632479, AA555232, AA569089, AA745588, A65890, AC008273, AC002553, AL022320, AC005011, AL031230, AC005988, AL050348, L44140, AL031319, AC004253, AL133216, AL049836, AC005412, AC005777, AL031447, AC007292, AC007537, AP000553, AF001548, AL035450, AC004149, AL031777, AC002425, AL035250, D28126, AC005920, Z83826, AC000353, AC002511, AF045555, AL133246, Z54246, AL031577, Z82244, AC004983, AC007792, AL031311, AC005746, AC006449, AP000501, AL021977, AL133249, AJ012008, AC005225, AC006474, AC007371, AC005037, AC004587, AC006277, Z83844, AC005839, Z82976, AL049776, AL022336, AC005081, AC006544, AL031132, AL031291, AL079304, AC004034, U73169, AC005755, Z82215, Z95115, AC005231, AC009946, AB023060, AC007546, AC007193, AD000833, D87008, D88268, Z81369, AL078593, AJ251973, Z99716, AC005694, D88270, AC005756, Z97206, AL034554, AC004859, AC005486, D87012, AL023575, AC003108, AC004973, AP000152, AL079295, AC006372, U80017, Z93784, AP000350, AC007690, AC005786, AP000555, AC002310, AC004815, AC005207, AC004703, AL008707, AC005520, AL031431, AC003070, AC005074, AC005089, AC007225, AB000877, AL008629, AF207550, AL021155, AC004821, AC007387, AL031186, AC002070, AC005695, AC005015, AF001550, AC005184, AC005484, AC002091, AC006441, AC007687, AP000011, Z75407, AC004933, AC004832, Z93023, AB023049, AL031295, AC002350, AC006511, AL022723, |

				AL031846, L81761, AC005288, AC006132, AF038458, AP000359, AJ236701, AL033521, AF109907, AL049793, AC004150, AL121658, AC010183, U47924, AC005768, AL049869, AJ246003, AL109952, AC004896, AB007869, Z95152, AC002420, AL022156, AL031683, AC004534, AL024474, AC001478, AC005209, AC004797, I34294, AP000271, AP000032, AC003692, AC004195, AP000402, AC006468, AC005562, AC007993, AC006046, AL008726, AC008116, X60459, AC005901, AC005901, AC005527, Z79996, AC006312, AC003013, AL031588, AC004741, AC005355, AL008582, AP000510, AC000031, AP001065, AC004139, AJ011930, AB023048, AC006111, AL133353, AL021395, Z85987, AC002492, U73636, U96629, AL031427, Z82173, AC006487, AC007551, AL022316, AC007227, AP000031, AC004887, Z15025, AL096791, AL031597, AC011594, AC008134, AC002418, AC005214, AF047825, Z97056, AC004895, AC004491, AC006538, AP000509, AC005913, Z84480, Z54147, U53331, Z98752, AC005033, AC009247, AC005046, AL031005, AC004099, Z98052, AL031589, AC005187, AC000075, AC005529, AC004263, AC005318, AC004196, AC000381, AC004596, AC006026, AC000379, AC007384, AF196779, AL021939, and S42653.
HHETM92	2391	1 - 435	15 - 449	
HHETQ54	2392	1 - 713	15 - 727	AC006270.
HHETR21	2393	1 - 706	15 - 720	AI885183, AA903775, AI554613, AI291522, AI916978, AW135652, AA393862, and X79828. H25211, Z44055, AA452343, AA297470, AA366087, AA297673, AA135318, AW161368, AW402965, N46057, Z41875, R59956, AW005173, AA504590, H23102, AL042001, AL041998, and AI865194.
HHETR94	2394	1 - 572	15 - 586	AC005158.
HHETS04	2395	1 - 1022	15 - 1036	
HHETU20	2396	1 - 456	15 - 470	AC007225, AC006449, and Z77249.
HHETV35	2397	1 - 210	15 - 224	
HHETX01	2398	1 - 322	15 - 336	AL035079.
HHETY79	2399	1 - 366	15 - 380	AA310882.
HHEUA62	2400	1 - 850	15 - 864	AA312734, W23120, AA976304, AA297895, H49170, R76772, R34930, AA356611, AA205378, AA281670, AA352713, AA662069, AA354224, AA521488, AA714210, AW167245, AA448152, D50918, AC004913, and AB023622.
HHEUC31	2401	1 - 772	15 - 786	AA132827, and AI905590.
HHEUC84	2402	1 - 675	15 - 689	AI624024, AA307816, and AB018268.
HHEUE01	2403	1 - 203	15 - 217	
HHEUE86	2404	1 - 719	15 - 733	
HHEUE89	2405	1 - 326	15 - 340	R94055, and AL136295.
HHEUP02	2406	1 - 605	15 - 619	AL042433, AL134920, AL134902, AL134524, U46341, AW372827, AL119341, AL134528, AL134518, AL134533, and AR054110.
HHEUT33	2407	1 - 293	15 - 307	

HHEUY42	2408	918029	1 - 167	15 - 181	AI560063, and AC005696.
HHEVI06	2409	933921	1 - 251	15 - 265	
HHEVL35	2410	965644	1 - 145	15 - 159	
HHEVN07	2411	952041	1 - 350	15 - 364	
HHEVR07	2412	952070	1 - 414	15 - 428	
HHEVS63	2413	973213	1 - 564	15 - 578	AL043039, AL043019, AW392670, AL119401, AL119457, AL043205, AL042978, AL042980, AI142132, AW372827, AL042544, AL119399, AL134902, AL043033, AL119355, AL042614, AL119341, AL119391, U46346, U46351, AW363220, AW384394, AL119439, U46349, AL134533, AL043029, AL119443, AL119396, AL134525, AL134524, AL042551, AL119319, AL134538, Z99396, AL119484, AL119324, U46350, U46347, AL119483, AL134536, AL119418, AL119363, AL043099, AL119444, AL043003, AR054110, AR066494, AB026436, A81671, AR069079, and AR060234.
HHEVS95	2414	957950	1 - 393	15 - 407	
HHEVV64	2415	974520	1 - 630	15 - 644	AW084328, AA525807, AA578621, T51832, AW023111, AA219349, AA805795, F24745, AW265688, AI192440, AA654482, H60738, AI433131, AI446259, F30158, AA808982, AA613966, AA639282, AA668587, AA609826, AA621865, AW245354, AI049709, AI635440, AA584655, AP001053, AL049872, AC007371, U47924, AC005484, AF064861, Z83845, AL031291, AC003967, AC007283, AC002094, AC004686, AC007050, AC006443, AC005369, AC004257, AL109758, L78833, AC006316, Z98200, AC004460, AC005839, AI022721, AL022320, M87889, AL022318, AC006081, U73169, AC006211, AC005088, AL024498, AC004890, AF031078, AC005081, AL109984, U96629, AF030876, AC005041, AC005588, AC005913, AC003108, AC008040, AC002128, AL121595, AC007314, AC006277, AC005971, AC005046, AF030453, AC004084, AC006088, AC004217, AL049869, AF043945, AC004750, AL031286, AC007637, AC004033, AC006501, AC005881, AL035587, AC005412, AC005288, AL034429, AC005348, AC006511, AC005568, AC005837, AL031282, AC018633, AC003101, AC003029, AC002544, AL008723, AC006115, U91326, AC006006, AC005015, AL135744, AC005666, Z85987, U91323, AC006275, Z82178, AL031588, AC006014, AC004517, AC005488, AC004813, AC007690, AC004771, AL021154, AC005049, AC005667, AP000476, AL109827, AL049776, AC007041, AL133245, AC007157, AC005399, AC002527, AL121603, AP000022, AC005180, AL031133, AC004134, AC007766, AC002477, AC004938, Z73417, AC005874, AF134471, AC006165, AC002369, AL031584, AF196779, AL121655, AC005089, Z95331, AC006530, AC005280, AC004673, AC005527, AC006026, AC004998, U63721, AL035659, Z93096, AC002990, AC004953, Z86090, AL109967, AC006538, AL133243, AC005722, AC002395, AC000025, AC005914, AC006512, AC007546, AL049539, AC004821, AL021453, AC004167, AC003043, AC007057, AL133445, AC005216, AC005003, AF095725, AL118497, AC004253, AC006312, AC005887, AL133289, AC004129, AC003007, AL021578, AL022316, AC002554, AL022302, U91322, AC004242, AC009248, AC004067, AL050348,

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HHEWE44	2416	973219	1 - 722	15 - 736	AL119444, AL119483, W01359, AL119418, AL134524, AC003037, AC007899, AL031681, AL021977, AL021707, AC005875, AC004967, AL034379, AC007216, U95742, AF109907, AL021453, AL034420, AC004000, AL034417, AL031432, AL022165, AC006287, AC005102, AC005746, AP000300, AC002059, and AC006468.
HHEWF40	2417	973234	1 - 799	15 - 813	AL119484, AL079683, AI612032, AA654627, AL043009, AA381163, F23259, AW265197, F19258, AW277102, M62268, AA768409, AI205126, AA558697, AI003743, T51118, AA366820, AW074398, W60516, AA650244, AA515435, AA077817, AI204076, AA219009, AA626747, AI418164, AI635974, AI110770, F29989, AI561335, AA355602, AI284640, F36404, AA366035, F37223, AI961906, AI365988, AW023672, AW303876, AI610159, AI471481, AI061334, F24284, AI053672, H40538, H64560, AA680299, AA749364, F36273, AI792108, AA578141, AI287528, AI334443, AI358229, AI358343, AA350859, AI350211, AI435544, AI433187, AA317170, F37169, AI287284, F34511, T29360, AI963786, AW088058, AI345459, AI264743, AW339687, F28576, AA559290, AI336660, T16592, AA342901, AI053786, AA831388, AI569086, AI924251, AI446464, AA659083, AI635272, AA714595, W56200, AW406755, AA654968; AW193432, AA133986, AI249997, H73081, N71724, AI305547, AI144330, AW339568, AL138265, AW193265, AL041368, AA664535, AI887483, AW248523, AA341228, F32894, F35659, AI431303, AA542991, AI688846, AA340003, AW338869, AW008317, AI079910, AI423103, AW264973, AW407340, AA308806, AA491814, AA095511, AW406447, AI349874, AI359285, AA977743, AW022046, AA434484, AI046409, AI281903, AW419262, AW439558, AA916039, AI912322, AI914706, AL119691, T40338, AI125139, AI536555, F31799, AI963720, AA919037, AW406162, AA652057, AI246409, AI872421, AA484148, AA649642, AI341664, AL079645, AW269639, N71930, AA362700, AL120295, AI499094, AI557323, AA299115, H71429, AW248803, F35113, AI565245, AW069807, AI343137, AI951928, AA451612, AI148446, AW275674, AL138455, AA775230, AA483034, H16048, AI038279, AI017024, AI613280, AA663306, AI493546, AI064864, AW276827, H64777, AI251002, AL042856, AA252763, AI951889, AI929531, AA610491, Z98473, AW249224, AA714453, AI299050, AI344844, AI471543, AA557686, AA344161, W07122, AI830390, AI037914, AA557879, AL038785, F32705, R72458, AA134367, AI761471, AA299601, AI648558, AI340453, AW080134,

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			858116
			2419
HHEWTS2			

HHEWU52	2420	935243	1 - 370	15 - 384	AL132987, AC005531, AC005342, AF053356, AC005291, AC002316, AC004895, AL034553, L78833, AF196779, AC004938, AL008721, AL031432, AL049775, AL035458, AE000658, AC003025, Z93017, AC004131, AF064861, AL034549, AL035086, AC005971, AC004230, AL031737, AC005694, AC005841, AC005899, AL034548, AL020995, AL133163, AC004834, AL009051, AC002418, AL033527, AL049610, AC016027, Z97053, AC007314, AF117829, AC007193, AC016830, AC004643, Z93244, AL034417, U85195, AP000031, AF031078, AJ251973, AC005772, Z84469, AC005519, AC004383, AL035684, AC004019, AL034429, AC004593, AP000155, and AC005725.
HHEWU93	2421	973141	1 - 499	15 - 513	
HHEWY63	2422	858114	1 - 402	15 - 416	
HHEXD07	2423	951983	1 - 386	15 - 400	T90576.
HHEXK51	2424	932911	1 - 441	15 - 455	AA380899.
HHEXX06	2425	933858	1 - 267	15 - 281	
HHEXY05	2426	920532	1 - 694	15 - 708	
HHEYG35	2427	878225	1 - 509	15 - 523	AC003007, and AC005632.
HHEYK30	2428	961960	1 - 481	15 - 495	AW250651, AA205472, AA100098, AW250529, AA852703, AI215935, AA099468, AA502996, R55448, and AL050348.
HHEYK73	2429	847483	1 - 543	15 - 557	AP000553, and AC009516.
HHEYP70	2430	861923	1 - 461	15 - 475	AL040191, AI681518, AI692511, AA126434, W73242, AI741041, AA149414, AI796147, AI382171, AA716512, AA453874, AW406167, AI651251, AI189326, AW300691, AI087946, AI750752, AA678239, AI880169, AI670131, AA527704, AA489320, N41477, AA406606, AI298196, AI189518, N24031, AW193326, AI768820, AA431845, AW072591, AA768764, H40910, AA994953, AI651230, AI767999, AI831533, AW405466, AA577527, AA621254, AA595649, AA777665, AI039523, AA831340, AA676861, AA761298, AI278796, AI633506, C75076, AW440729, AI274990, T74612, AI274989, AI204199, AA027230, AA046211, AI499039, AI698691, AA513167, AI769276, AI247923, AA730209, AA431442, H51604, R73370, H40951, AA714946, AA889500, AW207415, AI868412, AW023485, AW080541, AW089033, AII43409, AA113933, AA149300, AI214812, W73297, R85535, AA347274, AI264766, H44524, AA773391, AB002368, and AC003010.
HHEYQ78	2431	963321	1 - 297	15 - 311	AB002390.
HHEYV03	2432	922104	1 - 459	15 - 473	N43748.
HHEYZ12	2433	968939	1 - 228	15 - 242	
HHEZA83	2434	973236	1 - 792	15 - 806	AW392670, AL119457, AL043033, AL119355, AL134542, AL119483, U46349, AL134538, AL119319, Z99396, U46351, AL119363, AL119324, AW372827, U46346, AW363220, U46350, U46347, AW384394, AL119443, AL119439, AL119484, AL119391, AL119444, AL119497,

Clone	ID	No.			Accession Numbers
HHEZJ38	2435	860048	1 - 510	15 - 524	AL043029, AL119401, AL042984, AL119341, AL042965, AL134533, AL119418, U46341, AL134536, AL119335, AL134902, AL042542, AL119399, AL119464, AL037205, AL134518, AL134525, AL042544, AL119496, AL134532, AL042975, AI142132, U46345, AL042450, AL043011, AL043019, AL042614, AL043003, AL042551, AB026436, AR054110, AR066494, AR060234, and A81671.
HHEZP45	2436	952047	1 - 187	15 - 201	W26290.
HHEZP54	2437	952367	1 - 798	15 - 812	Z73359.
HHFHP14	2438	960049	1 - 805	15 - 819	AI806206.
HILAA18	2439	657314	1 - 579	15 - 593	AA381084, AA381071, and AA380862.
HILBD61	2440	504130	1 - 516	15 - 530	AA352037.
HILCD94	2441	887182	1 - 809	15 - 823	AA352188.
HJAAH06	2442	960647	1 - 631	15 - 645	AI823665, AI680854, AA723790, AW195801, AW137032, AW439945, AI924857, AA687329, AA743184, AA764896, W93389, and AA353212.
HJAAM73	2443	530476	1 - 451	15 - 465	AW163254, AA314521, AA354171, AA361131, AA337563, AA354364, AA330348, and AF113538.
HJAAT23	2444	530472	1 - 436	15 - 450	AA354447, AI909885, AI940079, AI909850, and AI909873.
HJAAU52	2445	530473	1 - 541	15 - 555	AA354714, W86159, and AI440432.
HJAAU57	2446	661275	1 - 293	15 - 307	AA169182, AA354783, AA852481, AB028893, Z64482, and Z64483.
HJAAV29	2447	669278	1 - 300	15 - 314	AA354792, AA354785, H67171, AA309969, R91175, AA502207, AI743721, R76258, AC004762, AC006511, AC005747, AC004821, AC000386, AC003101, AL031259, AC004382, AC007040, AL109798, Z85987, AC004843, Z99128, U73167, U90094, AP000300, AL031848, AC007055, AC005546, AP000045, AP000113, AL035587, AF205588, AP000962, AC002306, Z84469, AC004791, and AL049591.
HJAAV82	2448	738993	1 - 669	15 - 683	AA354798.
HJAAW39	2449	530468	1 - 417	15 - 431	H38110, AA354829, and AA242784.
HJAAW48	2450	530641	1 - 391	15 - 405	AA354854.
HJABB37	2451	530467	1 - 421	15 - 435	AA354890, F00906, AA629836, AI446336, AC005288, AC002418, AL035405, AC003684, AL049631, AC006088, AC005800, AC004814, AL133445, AC000353, AC004386, AP000493, AC004966, AC004883, AL021154, AC004813, AL034417, AC003098, AL022476, AC006449, AC006511, AC006312, AL034429, AC005229, AC004491, AC007774, AL050307, AC006501, AF111168, Z98742, Z98036, AF190465, AC006538, AC004699, AC006026, AL096701, AC004967, AF053356, AC008115, Z99716, AL050318, AC005696, AC004821, AC004812, Z98051, and Z68756.
HJABC27	2452	669059	1 - 367	15 - 381	AA355113, AW068073, AA425026, and AA157625.
HJABH14	2453	530463	1 - 310	15 - 324	AA355129, AA287703, R05710, T83234, AB023172, and AF143869. AA310688, and AA355321.

HJABJ06	2454	954589	1 - 475	15 - 489	AA309609, and AL023806.
HJABP04	2455	925557	1 - 493	15 - 507	AA309924.
HJABV44	2456	871824	1 - 556	15 - 570	AA310251, AA831350, AA302870, AA811673, AI076729, H67854, AA601376, C14014, AI869406, AII33355, Z93241, AC007308, AC006162, AP000500, AC007160, AC006115, L78833, AL049793, AC005081, AC006011, AL034548, Z97056, AC005224, AC006121, AL050318, AC004150, AL022311, AC005015, AC005632, AP000503, AC006021, AP000356, AL050312, AC005562, AC004099, AF165926, AC006211, AC002044, AL031311, AC005971, AC008012, AL031255, AC002470, AC007283, AC004106, AC004757, AC001228, AP000692, AP000133, AP000211, AP000030, AC005726, AL049829, AF196971, AC005529, AP000252, AC005305, AC002115, AC006487, AL020997, AF001548, U95090, Z93016, AL049694, Z97054, AC004686, AC005800, AC005902, AL031390, AL031297, AC006111, AP000251, AC004087, AF053356, AL049757, Z94801, AC007227, Z83844, AL096701, AL021391, AF205588, AC010077, AB023049, Z93023, AC004655, AC004882, AC005874, AF134471, AL031767, AL109914, AL109839, AC007350, AL031668, AF055066, AF134726, AC002306, Z94056, AC001052, AC004659, AC004966, Z83838, AC004685, Z97989, AC005822, AC005755, U62293, Z98200, AC005722, AC004156, Z99570, AB020871, AC007664, AC007537, AC004148, Z98048, AC008018, AC007021, AL109984, AL022238, AC005049, Z83732, AC004983, AC006449, AC005538, AC007193, AP000311, AC002347, AC007057, AL133448, AL031281, Z92542, AC005057, AP000049, AL022323, AC005962, AC004910, AC006014, AL022316, AC004816, AC005011, AC004699, AC005180, AC007934, AL024507, AF030453, AC004998, AF003529, AL139054, U62317, AF037338, AC009247, AB020870, AL096791, AC005911, AF196779, AL131778, AC004797, AL031778, AB023048, AC003110, AL031597, AL035695, AL008734, and AP000088.
HJABV57	2457	839528	1 - 661	15 - 675	AA310405, A30438, I25947, U46128, L40401, AR040601, and AJ133038.
HJABW28	2458	958721	1 - 368	15 - 382	AA310349, H63791, H63751, AA488739, AC004236, AC004466, and AA249375.
HJABX33	2459	966611	1 - 425	15 - 439	H64513, and AA310354.
HJABY68	2460	861548	1 - 483	15 - 497	AA310646, AA354853, AW405591, AW402676, N76224, N42680, and AI290663.
HJABZ52	2461	857454	1 - 438	15 - 452	AA310693, H83593, AA236501, AF150367, AL035563, Z61190, Z60182, and AF161557.
HJACB80	2462	746411	1 - 545	15 - 559	AI094227, W92159, AA825437, R02713, AW205546, T86217, AA885954, W86575, AA904189, W86709, F17491, AA310834, and AC008014.
HJACC59	2463	534867	1 - 505	15 - 519	AA310956, AA355111, W79349, D81026, C15076, C14389, AW377671, D80522, D59467, D80164, D59502, D81030, D80166, D80193, D80195, D80391, D59787, D80133, D59275, D80038, D80022, D80212, D59619, D80210, D80240, D50979, D80196, D51213, D80227, AA305409, D80219, D58283, D51022, D59859, C14331, AW384820, D50995, AW384832, D51423, D51799, D80253, D80251, D80043, D80045, AA305578, D51060, D80269, AA309971, D80248, C06015, D80258, D80188, D59927, D59610, D57483, D80378, D80366, T03269, D80268, AW178986, D59889, D80024, AA514188, D80439, AW177440, T11417,

| HJACC67 | 2464 | 518222 | 1 - 343 | 15 - 357 | D80241, AA514186, AW178893, D80064, D80247, C14077, D80302, D80157, AW360811, C14014, D59373, D51103, AW177501, AW177511, AW179328, AW177734, C14227, AW369651, AW178759, D80014, AW378532, D51759, AW378533, AW375405, AW360844, AW352117, D81111, AW178906, AW377676, AW179019, AW178775, D58101, T03116, D51250, AW178762, AW352158, AW366296, AW360817, D59503, AW177505, AW179020, AW375406, AW378534, AW352171, AW179332, AW377672, AW179023, AW178905, AW177731, T02974, AW178754, AW179024, AW352170, AI525923, T48593, AW360841, C14407, AW378528, D45260, AW296085, AW178909, AW179004, F13647, C03092, AW178907, AW178908, AW179018, AW178971, AW378540, AW352120, AI557751, AA809122, H67854, H67866, AW179017, AW378539, AW179009, AW179012, AW178980, D59695, AW177733, AI525917, AW360834, AA380490, D80168, AW367950, AW178914, AW178774, AW378543, D59317, AI905856, D59551, AW178911, AW378525, AI535686, D58246, D52291, AW179013, D80228, C14973, C14344, D51221, AW178781, AW352163, AI557774, D59474, AI525920, AW177728, AA514184, Z30160, T03048, AI525227, Z21582, C05763, D80949, AI525242, AI535959, C14046, H67858, AI525925, AI525235, AI525215, D51079, D45273, C13958, AI525912, AA285331, AW378542, AI525903, D31458, C16955, T02868, Z33452, AI525237, AF058696, A84916, AJ132110, A62300, A62298, AR018138, AR008278, A82595, AF036905, AB028859, AR060385, AF036906, AJ223280, AB002449, X67155, Y17188, D26022, A25909, I50126, I50132, I50128, I50133, Y12724, A67220, D89785, A78862, D34614, A45456, AR060138, AR016514, I82448, D88547, A26615, AR052274, I14842, A94995, AR066488, Y09669, A43192, A43190, AR038669, AR008443, AR066487, X82626, A30438, AR025207, AR054175, Y17187, D50010, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, AR016690, U46128, I79511, A64136, A68321, AR060133, D13509, X68127, and AF123263. |
| | | | | | AA309853, C14014, D59859, D59889, C15076, D51423, D80253, D59467, H67854, D80166, D80212, D51799, D59619, D80210, D80240, D57483, D80164, D80024, D58283, D80188, D80195, D59275, D80219, D81030, D80391, D80043, D80227, D59502, D80366, D80196, D80022, D59927, D59610, D80038, D80269, D80193, AA305409, D59787, C1433, D50979, C14429, D50995, D80241, C14389, T03269, D80378, D80045, D51060, C75259, D80134, AW377671, AW178893, AI913895, D80268, AW378532, AI114875, D80251, D52291, AW369651, D51022, AW178775, D51250, D58253, W89152, D59695, D80949, F13647, AW179328, C14298, AW352158, D80064, D51079, AW177440, Z21582, AA305578, D80168, D81026, D80248, AA594198, C14407, AW378540, D80522, AW178762, AA745570, AA514188, AW177501, AW177511, AW375405, AW360844, AW352117, AA514186, D80133, AW360811, AI905856, D51097, H67866, AW375405, AR018138, X67155, Y17188, A67220, D89785, A78862, D26022, A25909, D34614, AJ132110, AR018138, X67155, Y17188, A67220, D89785, A78862, D26022, A25909, D34614, AL049795, AF181897, AF068862, AC004612, AF049895, AC002070, I82448, AR008278, AF058696, AC004922, AC002350, AR025207, AL022319, AC004477, X82626, AL021026, |

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HJACE47	2465	589114	1 - 298	15 - 312	AB028859, AC007790, AC007227, AC005912, U95739, AB004907, U91319, AC006077, AC000004, AL121852, AC004253, and AC006026.
					AA311100, and AA355655.
HJACE79	2466	666768	1 - 461	15 - 475	AA311091, AA354762, D58283, D80043, D80268, C14389, D57483, D80022, D80166, D80253, D80195, D80391, D51423, D59619, D81030, D59859, D80210, D51799, D80240, D80196, D80212, D80227, D50979, D59502, D59927, D80219, D59275, D50995, D59889, D80038, D80193, D80269, D59787, D59610, D80366, D51060, D80024, D80164, D80241, D80522, D59467, D80378, C15076, D80045, D81026, AW177440, AW177501, AW177511, C14014, AW377671, AA305578, C14331, AW352117, AA514188, AA514186, AA305409, D51022, D80248, T03269, AW178893, AW352120, D80247, AW360811, D80251, D80133, AW179328, T03116, D58253, AW375405, AW360844, AW378532, AW178906, AW179024, AW177505, AW178775, D80132, AW366296, D51213, AW360817, D51250, D80302, AW375406, T11417, AW352158, AW378534, AW352171, AW178762, AW179332, AW377672, AW377676, AW179023, AW178905, D80439, D80134, F13647, AW178754, AW177731, AW352170, AW360841, AW179020, AW178909, AW177456, D52291, AW178907, AW179019, AW179018, AW178971, AW179004, D51079, D59627, D80168, AW178781, AW179017, D80014, AW178980, AW179329, C14227, AW179012, AW352174, D81111, AW177733, AW378528, AW178908, D51759, C14407, AW179009, AW178914, AW378540, Z21582, AW178983, D51759, C14407, AW177728, AW178986, D58101, D45260, D80258, C14298, D80064, AI905856, AW352163, AW178911, AW177728, T48593, D58246, D59503, AA285331, AA809122, T02974, AW360834, AW178986, D58101, D45260, D80258, AW177734, C03092, H67866, AW367950, AI525923, AI557751, AW369651, H67854, D60010, AW378533, AW378539, D51097, D59474, C14344, D45273, D51221, C14046, AI525917, D59317, AW179013, AW178759, C14973, T03048, AI525227, D51221, C14046, AI525920, AA514184, AI557774, AI535961, AI535686, C16955, H67858, D59551, Z33452, Z30160, AI525912, AI525235, AI525242, AW378542, AI525925, AI525927, AI525215, C05763, AL031005, A62300, AJ132110, A84916, A62298, AR018138, AB028859, AF058696, AR008278, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, A82595, D88547, A94995, AB002449, AR060385, X82626, AR016808, AR008443, AR025207, I50126, I50132, I50128, I50133, AR060138, AR066488, AR016514, A45456, A26615, AR052274, AR066490, Y09669, A43192, A43190, AR038669, AR066487, I18367, AR054175, A30438, X68127, I14842, AB012117, D50010, Y17187, A63261, A70867, AR008277, AR008281, AR008408, A85396, D88507, AR066482, A44171, AR062872, A85477, AR016691, AR016690, U46128, I19525, A86792, X93549, D13509, A64136, A68321, AR060133, I79511, AF123263, and AR008382.
HJACF14	2467	659329	1 - 635	15 - 649	AA311125.
HJACF47	2468	507156	1 - 910	15 - 924	W94499, AA311178, AA568770, AI376314, and AL117328.
HJACH86	2469	784634	1 - 258	15 - 272	AA311347, and AC002310.

HJADD60	2470	708664	1 - 321	15 - 335	AA713522, AA687156, AA459001, AA250811, and Z98946.
HJBAB01	2471	961088	1 - 292	15 - 306	AA355427.
HJBAD34	2472	508225	1 - 121	15 - 135	AA355455, AA355516, and AC005156.
HJBAG75	2473	523069	1 - 266	15 - 280	AA355499.
HJBAT26	2474	522697	1 - 269	15 - 283	AA356012, AI969579, AA911841, AA846697, AI224479, AA505890, AI360528, and AA765212.
HJBAX43	2475	929793	1 - 290	15 - 304	AA356074, and AC000065.
HJBBD13	2476	765075	1 - 198	15 - 212	AA356340.
HJBCP53	2477	574259	1 - 414	15 - 428	AA306860, AA312440, AI478642, D59627, D80168, D59695, D52291, T03048, D45273, D51213, C16955, C15076, D59275, C14298, AA305578, D80251, D80949, D51799, D51079, D80269, D57483, D59467, D80227, D80366, D59889, D80253, D81030, D80164, D50979, D59610, D80024, D80212, D80195, D80188, D80219, D59502, C14389, C14331, C14407, D80045, D50995, AW360780, D58283, D51022, D59859, D80022, AA305409, D80166, D51423, D59619, D80210, D80391, D80240, D80043, D59787, D80064, D80038, D80378, D81026, D80241, D80193, D59927, D80228, C14227, AA514188, D81111, Z33452, D80258, D59503, D80014, D58246, D58101, D80133, AI535686, D51060, AI557774, D80248, T11417, AW377669, D52059, T02974, F13647, C14014, D80522, Z21582, Z30160, C06015, C14077, AA514186, AW377661, H67854, H67866, D59551, D80268, AI525216, AI525228, N66429, AI557751, D60214, D80302, AA809122, AI525969, D59317, C14344, D80439, C03092, D80157, C13958, C14973, D59474, T03116, D80247, C04682, T02868, AI525978, D51103, AA514184, AI525238, D51759, D51221, AI525242, AI525903, AI525923, C14002, AI525920, H67858, D31458, AI525227, D45260, C05763, AI525237, AI525235, AI525912, AI525215, AI535961, AA305720, AI525917, AC003682, AJ132110, A84916, AR016808, AB028859, X64588, A62300, A62298, AR018138, AR008278, AB010386, AF058696, I79511, AR060385, AB019242, U37689, I81198, AB002449, I14842, A82595, A47134, AR054175, AR008277, AR008281, AR060382, and Z82022.
HJBDB28	2478	839067	1 - 199	15 - 213	AA306009.
HJBDG57	2479	750669	1 - 454	15 - 468	AA306410, AW245824, AA313296, AA306336, AW245551, AA304936, AI525315, AA355857, AA382974, AA313343, AA158977, AA360010, AA158998, AA312340, AA341482, AW403283, AA355541, AJ010058, Y18418, AF099084, AF070735, AB012122, AF100694, AB001581, and AB002406.
HJBDL14	2480	960109	1 - 565	15 - 579	AA306649, N76633, Z40822, and Z97989.
HJKSB86	2481	523007	1 - 336	15 - 350	AA356898.
HJPAH35	2482	509162	1 - 312	15 - 326	
HJPAT51	2483	730875	1 - 335	15 - 349	Z25932, and Z25922.
HKBAC12	2484	857298	1 - 743	15 - 757	AI940546, AI859744, AI459866, AI671077, AW236342, AA372106, AW265654, AA024517, AW440976, F23274, F34826, AW406162, F34511, AA614010, AI291124, AL079869, AA634855,

AI291268, N54179, AA025083, AI537030, AA663482, AA501600, F33121, AA626678, AA834799, AW188484, AA127486, AA318652, AI205126, AA327572, AI282310, AI886365, AL041706, AA666059, AA054106, AA077817, AA372881, W32993, AA515224, AA715606, AA987962, AA593060, AI301273, H64777, AI287485, T40077, AA347927, W47444, AA654322, AA381747, AA570416, AI341548, AI039451, N43757, AI133164, H43183, H39611, AA528441, AA180964, AA215929, H04867, AI190960, AI718446, AI815583, AA565700, AI678392, AA586655, AI110770, AA347930, AA450199, AL041368, AA641103, AI816537, AI339440, AI282832, AA351845, AA504951, AI921649, AI635274, AA723017, AL138065, AW028353, AI376100, D29019, AA745410, AI049649, AI865905, AI921296, AW029038, AA177061, AA507991, AA243959, AW368401, AA359958, AI824562, F36273, AI821722, AW074059, AA533408, AI962050, AI356904, AI732162, AI564284, AI499094, AI802526, AI873916, AI821172, AI982634, AI370475, AI049722, U34879, AF207550, AC005071, AC006241, AI035071, AC004659, U91326, AP000255, AC007057, Z99943, AL049872, Z85987, AC005358, Z93017, AL049793, AC004815, AC006557, AL008629, AP000213, AL022326, Z83822, AP000135, AC007191, AL031428, AC004106, AD000092, AL021937, AP000031, AL049757, AC004922, AC002404, AF010238, AL033518, AC009247, Z54334, AC006111, AC005037, AC005041, AC005144, AL049776, AC005932, AL022238, AL022163, Z92542, AC007263, AC004526, AC005520, D87012, AC004834, AL031662, AL023284, AC002543, AC006571, Y11107, AL035072, AC005066, AL009181, AL035405, AC005695, AC003101, AC004825, AC004151, AC006130, AL049636, AC005940, AL031668, AC007055, AC004941, AP000553, AC002350, AC005328, AC005988, AC004801, U47924, AC005542, AC005789, AC008040, AC005527, AL022302, AC005696, AC002310, AC016025, AC005564, AF196970, AC002455, AC005565, AC005049, AC006965, AL050338, AC005759, Z93930, AL078581, Z84721, AC003043, AL034553, AL049636, AC007226, AC005193, AC004821, AC005529, AC007666, AC002096, AL022158, AP000517, Z93241, AC005944, AF002993, AC005740, AC002073, AC000353, AC002431, AP000275, AC004224, AC004802, AC004647, AC004841, AL133382, AP001054, AP000504, AP000275, AC006026, AC006050, AC002425, AL132987, AL023575, AL049869, L05367, AC004996, AC006285, AC004915, AL031295, AL133297, AC005261, AL021154, AL034429, AB008681, AP000134, AP000212, AP000030, AC004771, AL035422, AC005225, AL022313, AL035587, D88268, AC005015, AP000350, AC000003, AC004777, AB023054, AP000105, AP000037, AP000045, AP000113, AF165926, L39891, AF095901, AC004638, AL008715, AC006942, AC005412, U95742, AC007421, AF108083, AL021707, AC005081, AL031846, AL096701, AC005153, AC006597, AP000349, AC004671, AL133448, AC005089, AC005682, AP000556, AC007151, AC005899, AF196971, AF118808, AC007216, AC004531, Z83836, AP000509, AC004890, AC005764, Z95116, Z69651, AC006048, AC006064, AC005353, AL031848, AL035420, AC005874, AF134471, AC007436, U91321, AC006538, AC002115, AC009946, AL035423, Z97989, AL109627, Z82211, Z98883, AF181896, D16561,

HKBAQ43	2485	934251	1 - 44	15 - 58	AL031589, AC003035, AI049833, AC007156, AC007371, AC004087, AC004130, AL109628, AL021392, AL031293, AC010170, AC000052, Z95704, AL020997, Z97054, AC005730, AP000272, Z86090, AL031667, AC009784, Z93096, AL008582, AC007193, AC008044, U95740, AC005206, AC004257, Z97352, AC004918, AC005755, AL034418, AL022311, AC005486, Z69917, AL031289, AC004263, AC006211, AC004019, AL031276, and AL035045.
HKBAT27	2486	963724	1 - 766	15 - 780	T07417.
HLADA25	2487	791845	1 - 428	15 - 442	AA159634.
HLADA89	2488	786490	1 - 471	15 - 485	AA259081, and AA256010.
HLCDB78	2489	760896	1 - 374	15 - 388	
HLEAO21	2490	531287	1 - 95	15 - 109	
HLEDB91	2491	787578	1 - 109	15 - 123	AA701968, AI038071, AI913968, AA478730, AA479434, and AC000123.
HLKDB22	2492	766876	1 - 837	15 - 851	AA127898, and AA127851.
HLKDC49	2493	722400	1 - 783	15 - 797	
HLLCD11	2494	967337	1 - 322	15 - 336	
HLMAC43	2495	799766	1 - 368	15 - 382	
HLMAE45	2496	783886	1 - 309	15 - 323	
HLMAE62	2497	796676	1 - 163	15 - 177	N71728.
HLMAE83	2498	530107	1 - 297	15 - 311	H04096, H04118, AI085270, AI348611, H03398, H87153, AI184354, and AW382616.
HLMAH45	2499	954125	1 - 532	15 - 546	
HLMAH60	2500	856858	1 - 108	15 - 122	
HLMAJ54	2501	811183	1 - 362	15 - 376	AI972605, AI825634, AA291745, AA281084, AA836598, AI301258, AW207800, AI468330, AI559377, AI423842, AW138405, AA398529, AA428226, AW137882, AW149488, AI277002, AW135764, AI630822, AI802000, AW027943, AA746502, AI479965, AW207230, AI436232, AI299005, AI992316, AI277010, AI805270, AI819704, AA477763, AI333133, AI091828, AI018332, AI369454, N95248, AW134617, AI017173, AA535795, AW274817, AW137677, AW203971, AA293668, AW140143, AI970870, AW184019, AA526926, AA831623, AI589653, AA745853, AI670914, AI468159, AI221290, AA304437, AW139897, H97046, AA724268, AI247557, AA737067, AA293000, AA706959, N78408, AF007887, and AC007041.
HLMAJ84	2502	615300	1 - 296	15 - 310	
HLMAN25	2503	677519	1 - 153	15 - 167	
HLMAU11	2504	954571	1 - 286	15 - 300	
HLMAU43	2505	856884	1 - 136	15 - 150	
HLMAU70	2506	732665	1 - 388	15 - 402	AC002073.
HLMAV62	2507	671905	1 - 126	15 - 140	
HLMAZ06	2508	960557	1 - 428	15 - 442	AA262581, H77920, AI479768, AA810033, AI440530, AA584862, C15362, AI110760,

HLMAZ14	2509	1 - 249	15 - 263	AW385729, AC002300, AC003684, AL021878, AC005546, AL132712, Z95331, AC006581, AC009464, AC007387, and AC006398.
HLMAZ72	2510	1 - 592	15 - 606	AI762175.
HLMAZ91	2511	1 - 239	15 - 253	AI821467, AI694977, AA230143, AC006480, Z83838, Z81370, AL022324, AC007227, AC005057, Z98950, AC006054, AF045555, AC005668, AC006285, AC007917, AP000704, AC005081, AC005821, AL049869, AC002395, AL031662, AC002449, AP000689, AC004185, AC002563, L29074, AC006039, AC000052, AC016025, L78810, U52112, AF088219, AC004019, AF152365, AP000509, Z85996, AC004150, AL050338, AC009044, AC004000, AC002059, AC003077, AF064866, AL020993, and AC004638.
HLMBB25	2512	1 - 242	15 - 256	Z97352.
HLMBB43	2513	1 - 343	15 - 357	AA012851, H86413, AA019024, and H86637.
HLMBB56	2514	1 - 366	15 - 380	AC020663.
HLMBB77	2515	1 - 331	15 - 345	AA219006, F08248, AI053911, AI933714, AW149313, AA846876, AI056177, AA297666, AI537772, AI494539, AI870197, AI636730, AA410788, C15060, AL037632, AA838190, F12561, N35602, AA127426, AW020088, T07039, AA308716, AA584378, AA621381, AI524360, AA961035, AA588001, AW148507, AA541423, AA213959, AA515457, AW275510, AA575911, AA580808, AA828042, AA747778, AL045808, AL046156, AI791913, AA501649, AW341978, AI792133, AI821714, AW149156, H07953, AW419262, AA630672, AI133297, AW179306, AW270343, H71429, AA954924, AA829036, AI344995, AI311276, AA493975, AA478355, AI925579, AA508359, T92321, AW235497, AI499588, AA878409, AL138182, AI287475, AA487621, T74524, AI311927, AL079645, AA493708, AA714276, AA613232, AI223700, AA228778, AA488746, AW023865, AA827231, AW274349, AI687343, F13808, AW378532, AA457070, AA086368, AA663461, AA326139, AA484267, AA372481, AA659360, AA503119, AA436774, AW303196, AA828749, AI648410, AL042927, AA502991, AA745507, AI250281, AW179305, AI282511, AI341571, H73550, AA436782, AA456578, AA522642, AA903253, AI873990, AA469400, AI284640, AI754567, AL035847, AI755214, AA827215, AA355379, AA847702, AA137013, AA658362, AA309257, AI745151, AI431240, H12071, AA380354, AI619436, AA515905, AL046409, AA683082, AL041373, AW408729, AA378690, AA508809, AA745406, AI821785, AA446657, H18914, AA833896, AA533463, AA833875, AA767963, AA508104, AA371482, AA557883, AL036037, AA469451, AA207033, AW196064, AA564865, AL041526, AI678368, AA526856, AA501852, AI791150, AW301350, AI818231, AA463590, AW020340, AI720058, AI040342, AA715814, N23504, AW172999, AI733856, AA732253, AA749235, AA610219, AI678785, AL048925, AW022655, AA568754, AI292257, AI377161, AI345891, AA788901, AA644090, AA531079, R89542, AA620467, AA630860, AA581123, AA502860, AW250905, AI149478, F25733, AI732677, AI281881, AA846907, AW130962, AB029885, U62317, AP000211, AP000133, AC006213, AC005778, AC006144, AC007298,

HLMBB80	2516	1 - 355	15 - 369	AC004935, AF053356, AC002357, AL109798, AC002119, AL049776, AC005231, X55448, AL109984, AF031078, AC003072, AL031289, AF030876, AL050306, AC005332, AC005701, AC004838, AC005081, AC005808, AC004167, AC004486, AL049647, Z99716, AL031005, AF196970, AC005348, AL031597, AC005971, AC008064, AP000694, AC007934, AC004813, AC007151, AL031589, AC010170, AC020663, AC002299, AC002470, AC005065, AC005736, AL031652, AL050341, AF129756, AC016025, AC005913, AC002565, Z83822, AC007666, AF165926, AP000251, AC007558, Z85987, AL049758, AC005924, AC004671, AC005399, Z84466, AC000052, AC004525, AP000501, AL050318, AL035413, AE000660, Z82249, AL050332, AF096876, AP000030, AC004999, AC006226, AC004019, AC005071, AL049570, AF115549, AC005181, AB020873, AC000073, AC000085, AC004590, AC005527, AP000556, AP000085, U07000, AC006531, AC007057, AC006581, AC003006, AC004825, AC008989, AC007458, AC016027, AC004787, AC005003, AL033392, AL034553, AC005702, AC004945, AF152364, AL121653, AC005037, AC005514, X74107, AF165147, AC004616, AC002464, U67829, AC006195, AC003988, AC004706, AL049760, AL049557, L44140, U80017, AC002504, Z98750, AC007537, AC005695, AC000353, AJ246003, AC007162, AL049565, AP000344, AL139054, AC005529, AC016830, AC006211, AC007055, AP000065, AB017602, AC005280, AC004160, AC004057, AL008718, AC008012, AL031767, AF093117, AC000039, U91325, AC007073, AC005066, AC008101, AC012599, AL133399, AP000049, AC011718, AC007285, AC008132, AC007664, AC004963, AC005342, AC005031, AL031294, AC003101, AC006050, A58551, AC005089, AC008079, U00921, AC009247, Y14768, AP000505, AC002492, Z98050, AC005899, AC003098, AL121658, AL080232, Y07848, AC007564, Z54146, AC006367, AC004069, AP000311, AL133246, AL035410, AC006045, AC000035, AC007279, AC000070, AC000086, AC008967, AC004465, AL031780, Z98742, AC006011, AL031708, X75335, AC005075, AC004382, AL035252, AC002455, AC005222, AD000813, AL117328, AC000065, AC005180, AL033377, AL034554, AL121877, AC005988, AC007253, AC005102, Z99943, Z83818, AC012099, AC000119, AC004953, AC005015, AC007308, AL031659, AL022326, AL024509, AL023803, AC005548, AC016831, AL035697, AC007536, AC002350, AC009479, AC005839, AP000500, AC006111, Z81369, AC005324, AL021977, AC004947, AL035072, AL049764, AC012398, U93163, AL022330, AC006205, AC005185, Z99496, U52112, AC004025, AC004032, AL049828, AC005907, AC009399, and Z96243.
HLMBF68	2517	1 - 551	15 - 565	AA548350, and AL035209.
HLMBQ04	2518	1 - 430	15 - 444	AA287609, AW305191, and AA309915.
HLMBQ77	2519	1 - 726	15 - 740	AL035413.
HLMBU64	2520	1 - 228	15 - 242	
HLMBU82	2521	1 - 331	15 - 345	AA383383, and AC009509.
HLMBV11	2522	1 - 442	15 - 456	

| HLMBV14 | 2523 | 682023 | 1 - 396 | 15 - 410 | AI471481, AA317973, AW088202, AA350859, AA650244, AI679379, AI284640, AI688846, AI446464, AA469451, AI251002, AA228420, AL041368, AI679888, AW264973, AI286264, T07451, AL046409, H63607, AI339850, AW440836, AW274349, AW131034, AW193432, AI918421, AI962050, AI273185, AA826303, AI619997, AW029038, AI929531, AW236342, AW419262, AA515128, AI890923, AW166815, AA886584, AA659083, AL040130, AA515051, F36273, AI610159, AW162049, AI824562, AL042420, F29989, AA977743, AW303196, AI431303, AA713815, AW301350, AA483068, AA364456, AL043721, AW193265, AI904894, AI537955, AI133636, AI567674, AI873916, AA594145, AA598824, AI625244, AF150222, AI679782, AA190613, AW088058, AA365347, AI133164, AI341664, AL120674, AA664535, AI278997, AI281697, AI350211, AL038785, AA229785, F18974, AI205126, AI608626, AA077817, AI653886, AI334443, AI053672, AI064864, H64777, AI613280, AA133986, AW055226, AA243452, AI469172, H88666, AI312149, AI830390, N25296, AI628288, AI282832, AA044863, AL119391, AI049722, AI951889, AW028400, AI287528, AA318652, AI017024, AW276827, AA177061, AI917271, N29933, AI286356, AA252763, C06458, AI138265, AW406447, AI537030, AI270117, AI951928, AI345654, AA021367, AI281903, AA385100, AA515224, F37169, AI289067, AI291124, AA634146, AW276435, AA771811, AI287485, AI821356, AI375710, AI340453, AA515435, AI291268, AL041412, AL041690, AA745410, AI358571, F32654, AA377730, AI301273, AA468131, AII68185, AII10770, H39611, AW261871, AC003971, AL021368, AL031387, AL109985, AC000004, AF117829, AC007999, AL132994, AC002564, AL049830, AC004859, Z75741, AJ006996, AC004594, AC006430, AL031224, AC010170, AL035458, AL023284, AC005999, AL035416, AC006160, AL117356, AC003954, Z96074, AC004459, AL031286, AC005694, AP000705, AL096829, AL121578, AL035422, AL035446, Z84719, AL109759, AL022397, AL121871, AC006511, AL021397, Z98255, U91326, AL049777, AC005529, AC006479, AF029308, AC006238, AI008708, AC007073, AC008268, AC006459, U89335, AC004819, AC004677, AC006044, Z97205, AC005527, AC005832, AL096769, U70984, AC005844, AL109622, AC005191, AL009172, AP000519, AC004592, AL136297, AC006251, AC007051, AP000014, AL049709, AC006020, AB023056, AC003075, AL121823, AL035687, Z77249, AP000152, AP000011, AL109807, AC007546, AL008719, AC006525, AL022160, Z74696, AL035067, AC002544, AP000515, AL031733, AF064857, AC002457, AL023580, AC004864, Z84814, AC000073, AC000085, AF049895, AC005084, AP000473, AL096767, Z98946, AL117351, AL109984, AL023582, AC003015, AC004702, AL021026, Z98200, AL031734, AL033403, AC006256, AP000307, AL050305, AC004769, AC008149, AL110505, AB000882, AC006417, AL109653, Z73986, AC005539, AC007750, AL132800, U69730, Y10196, AC006946, AF109076, AC003029, AF172277, AP000080, AC007214, AC002381, AC006374, AL031391, AL109837, AC002531, AC003045, AL135746, AC007115, AL022310, AC006249, AL049873, AJ239322, AL021877, AC006040, AL022319, AL136363, AL031782, AC005863, AC005909, AC004979, AC004842, |

HLMBV24	2524	825595	1 - 232	15 - 246	AC007106, AC012085, Z78022, AF017732, Z95124, AC002554, AL050348, AC004912, AC004049, Z99716, AC002044, AC009721, AL049835, Z78021, AL008629, Z82900, Z98884, AJ010598, AC006002, AC005323, AL035696, AF222685, AC004908, AL031670, AC005728, AC006432, AC006515, AP000115, Z95327, AC004984, AP000455, Z97198, AL096707, AL009051, AC009233, AC004020, AL078644, AC005969, AC004866, AC006383, AL022328, AC002451, AF070718, AC004547, AL023578, AC009891, AF003627, AC004384, AL033525, AL031116, AC006565, U91327, AC005216, Z83843, AC005029, AL031785, AC007065, AC006029, AC004531, AC006367, AL133512, AC009405, AC007671, Z98941, AC005993, AC005703, AC004930, AL031285, AL035079, AL121757, AC021092, AL035604, AF001905, AC000119, Y18000, AC000120, AC004055, AP000081, AC008067, Z93928, AL117258, AC008015, AC007380, AC007687, AC004199, AC005532, AP000704, and AC008109.
HLMBV72	2525	688069	1 - 295	15 - 309	
HLMBW11	2526	950728	1 - 925	15 - 939	AW009940, AI394293, AI082857, AA227673, AW207417, AA491391, N99896, AA491389, AA227560, AI000839, AA361942, and AF156884.
HLMBX06	2527	954576	1 - 397	15 - 411	AW409578.
HLMBX19	2528	879667	1 - 233	15 - 247	AC007539.
HLMBY16	2529	531053	1 - 193	15 - 207	
HLMBZ31	2530	967640	1 - 270	15 - 284	
HLMBZ47	2531	577605	1 - 348	15 - 362	AC003070, and AL135783.
HLMBZ73	2532	531401	1 - 209	15 - 223	
HLMCA13	2533	790952	1 - 398	15 - 412	R61738, AL117647, AB023195, and AL117518.
HLMCA22	2534	529185	1 - 257	15 - 271	
HLMCJ32	2535	799767	1 - 337	15 - 351	
HLMCJ64	2536	739397	1 - 314	15 - 328	AA719251, and AC005839.
HLMCJ66	2537	707231	1 - 83	15 - 97	
HLMCK45	2538	698342	1 - 268	15 - 282	
HLMCL50	2539	921041	1 - 179	15 - 193	
HLMCL93	2540	799699	1 - 620	15 - 634	AA192733.
HLMCT06	2541	954615	1 - 378	15 - 392	AC005696, AC006536, AC004686, AC004500, AC004589, AL096773, AC007023, AC007057, and AL132712.
HLMCT15	2542	507212	1 - 244	15 - 258	AL035086.
HLMCT24	2543	921543	1 - 231	15 - 245	
HLMCT79	2544	916590	1 - 344	15 - 358	AW268314, AA767276, AI032114, F18098, AC007993, AC008085, AC006543, AC006544, AC005697, AC004686, AC005632, AC005730, AP000152, AP000011, AC009542, AC009330, AC005606, Z83840, AC002094, U91319, AC016026, AL023096, and AC002454.

HLMCT93	2545	1 - 336	15 - 350	
HLMDE76	2546	1 - 92	15 - 106	
HLMDF04	2547	1 - 53	15 - 67	
HLMDF14	2548	1 - 369	15 - 383	
HLMDF52	2549	1 - 170	15 - 184	
HLMDH54	2550	1 - 495	15 - 509	Z82206.
HLMDH78	2551	1 - 249	15 - 263	H28779, AI865182, and AL136295.
HLMDJ37	2552	1 - 418	15 - 432	AL096768, AC002312, and AC005800.
HLMDJ48	2553	1 - 342	15 - 356	
HLMDN83	2554	1 - 340	15 - 354	
HLMDO02	2555	1 - 235	15 - 249	
HLMDO18	2556	1 - 136	15 - 150	AL096755.
HLMDO61	2557	1 - 141	15 - 155	
HLMDO65	2558	1 - 456	15 - 470	AA312110, T62666, H06759, W37108, W40387, AI620464, AI911142, R12100, W76480, W45377, Z45518, AA315859, and AF190465.
HLMDP35	2559	1 - 247	15 - 261	AA131317, AW250536, AA456441, AA301053, AA301052, and D83782.
HLMDQ37	2560	1 - 126	15 - 140	Z83844.
HLMDQ40	2561	1 - 188	15 - 202	
HLMDQ60	2562	1 - 368	15 - 382	R89560, AA377325, H73561, AA550959, N70472, AA225100, R34070, AA298647, AA458573, AI683547, AA225028, AA063115, AW151247, N63897, T07878, AI889108, AI696343, AA632447, AA559241, N71619, AA502571, H62923, T03576, AA669711, AL024498, AL021707, AC005971, AC004491, AL022721, AC003080, Z85987, AC004967, AL022313, AC007421, U91323, AC006153, AC006014, AC005231, AC005089, Z84480, AC007226, AC005488, AL135744, AP000113, AC006088, AF047825, AC005081, AL022165, Z94801, AC007216, AC004955, AC004890, Z83844, AC007225, AL022320, AC004963, AC004893, AC006512, AC004938, AC005920, Z97630, AC006241, AF124523, AC004223, AC008040, U91326, AC004929, Z98044, AL035413, AC002404, AB023049, Z85986, AC004000, AC002395, AC005057, AP000359, AC005184, AC002404, AB023049, AC004859, AC007546, AP000557, AC002544, AF001549, AC005342, Z84487, Z99716, AC005808, AC004895, AL023575, AC002470, AC004216, AL031311, AC005288, AL031289, AC003029, AP000692, Z92542, AF031078, AC006285, AC004999, AL109627, Z86090, AC003043, AC002314, AC006077, AP000556, AL034423, AC006538, AC004841, AC005102, AC003043, AC002314, AC008718, AC005305, AC002094, AF030876, AC005412, AC005409, AC004883, AL022311, AC008718, AC005305, AC002094, AF030876, AC005412, AC005409, AC006160, AL034420, AF111168, AF001548, AB003151, AC007551, AL035415, AC004167, AP000689, AC005015, AC005632, AC005520, Z93023, AL050307, AC008372, U78027, AL035659, AF165926, AC005914, U07563, AL034429, AL050341, AC007182, Z98200,

HLMDR16	2563	530103	1 - 113	15 - 127	AC005229, AF196779, AC006312, AC005907, AL031295, AC003663, U62293, AC009248, AL049760, AL022316, AC002312, AC002517, AC002350, AL133371, AC608751, AC004099, AC005095, AL031281, U82828, AC006050, L78810, AL035667, AP000512, Z95114, U95743, AF109907, AC006039, AL022476, AC007358, Z83840, AC002347, AC006468, AL132712, AC002316, AL035422, AC007690, AC005899, AC000159, AC007051, Z97181, AL031846, AL109952, AC007450, AC016027, AL109628, AC006111, AC005225, AC002563, AC005696, AC005736, and AB014078.
HLMDR33	2564	959707	1 - 416	15 - 430	
HLMDR70	2565	531235	1 - 94	15 - 108	
HLMDT17	2566	531231	1 - 210	15 - 224	AL050337.
HLMDU04	2567	571393	1 - 281	15 - 295	
HLMDU07	2568	930471	1 - 456	15 - 470	AI654933.
HLMDU17	2569	528040	1 - 219	15 - 233	AL080243.
HLMDU43	2570	575607	1 - 359	15 - 373	AI337315, AI492017, AI565658, AI565657, AI651781, AI591214, AI565667, and AL022316.
HLMDU54	2571	856877	1 - 320	15 - 334	Z74023, and AF172244.
HLMDU71	2572	531228	1 - 316	15 - 330	
HLMDU96	2573	799729	1 - 309	15 - 323	
HLMDV96	2574	934543	1 - 813	15 - 827	AI824014, and T79467.
HLMDW28	2575	531230	1 - 293	15 - 307	
HLMDW58	2576	799749	1 - 282	15 - 296	
HLMDX46	2577	523771	1 - 306	15 - 320	
HLMDX59	2578	739523	1 - 404	15 - 418	AA666254, R96738, R35404, AI571161, AA584484, AA740297, AA657778, AW089952, AA297844, C05714, H60313, AA587995, AI266003, H51835, H58666, N80546, AI682665, AI382324, T61514, AL118980, AI886056, F00818, AW079664, AI814739, AA603530, AA826081, AA515457, AI865807, AW068316, AA608751, AI872513, R07267, AA639946, AI289941, AI289942, AI955697, AA693484, AL049273, AL135744, AC003109, AC006238, AJ246003, AC007537, AC005736, AC005520, AL049757, AC005015, AC007057, AL049872, AJ010598, AL031291, AC006480, U91325, Z81314, AF187320, AL049748, AL034429, AC005210, AC007899, AF121781, AL121658, AL031670, D86995, AC002430, AC016025, AL021154, AL035249, AC007384, Z97056, AP000269, AP000032, AP000103, AC006064, AC005368, AC006088, AC007731, AC005971, AC005500, AC006026, AL050348, AC005859, AL020997, AC005914, AC006449, AC002511, AC002369, AP000347, AC002470, AC005513, AL023694, AL133448, AL020993, AL031803, Z94057, Z85986, AF047825, AC004383, AC005569, U91321, AL121655, AP000558, AC006080, AC001228, AF111168, AP000350, U62293, AL031281, AL109827, AC007327, AC007308, Z98941,

Clone	SEQ ID				Accession Numbers
HLMDX71	2579	799758	1 - 356	15 - 370	AC005695, AC007546, AF001550, AL008582, AL022165, AC006112, AC000134, AC004228, Z84480, AC002477, AP000555, AC005839, AC008585, AB023048, AC002492, AC007686, AC002549, AC004882, Z97053, AL096763, AC007845, AC003682, AC008149, AL031659, AC004531, AC007766, AC006539, AL049745, AL096791, AC004876, AL031311, AC002045, AC005730, AC009516, AL121653, AC005826, AL109627, AL096701, Z97630, AL022726, AL031431, AL049539, AC004896, AC006441, AL035086, AC005829, AC003043, AC002472, AF196779, AL023553, AC004782, AC005412, AC006130, AL022097, Z86090, AC005899, AC006430, Z69715, AC007999, AC007372, AC004821, AF207550, AC005195, AP000348, AC008984, AC005225, AL080242, AC006930, AC004598, AC005377, AL049837, Z46936, AP000355, AC005529, AC004929, U47924, AJ003147, AC005295, AC005531, U85195, AP000134, AL109758, AL050318, AC004643, Z69713, Z83841, AL049843, AE000658, AC004386, AL031685, AC002407, AC004686, AC005969, AC007096, AC006077, AC003006, Z98885, U07563, AL021578, AC005363, AC005519, Z70289, AC007096, AC006077, AC003006, Z98885, U07563, AL035443, AL109963, AC007262, AC004253, AC002133, and AC003101.
HLMDY24	2580	531219	1 - 408	15 - 422	AA336841, and AL080172.
HLMDY48	2581	666518	1 - 118	15 - 132	AC002400.
HLMDY56	2582	518410	1 - 92	15 - 106	
HLMFA56	2583	730947	1 - 285	15 - 299	
HLMFA72	2584	531359	1 - 316	15 - 330	AC002299.
HLMFB58	2585	577643	1 - 352	15 - 366	
HLMFD75	2586	799682	1 - 524	15 - 538	
ILMFG58	2587	573130	1 - 344	15 - 358	
HLMFG66	2588	676040	1 - 435	15 - 449	
HLMFH74	2589	671941	1 - 423	15 - 437	
HLMFI89	2590	526929	1 - 185	15 - 199	
HLMFK45	2591	531222	1 - 253	15 - 267	
HLMFK63	2592	888660	1 - 574	15 - 588	AA305578, AW366296, AW375405, AW177440, D59859, AW360811, D81030, AW377671, AA305409, AW178893, AI905856, D80314, C14389, AW178906, AW179328, AW375406, AW378534, AW179332, D58283, AW377672, AW179023, AW178905, D80022, C14331, D80166, D80195, D80193, D59927, D59467, D51423, D59619, D80210, D51799, D80391, D80164, D59275, D80240, D80253, D80043, D59787, D80227, D59502, AA514186, AW378532, T03269, D81026, D80269, C14014, D80212, D80366, D51060, D80196, D80188, D51022, D80248, D50979, D80219, D80522, D50995, AW352170, AW378528, AW178762, D80268, D80038, C15076, AW377676, AW352171, D57483, AI535850, AW177731, D80439, D59889, D80133, AW178907, D80045, AW179024, D80247, AA514188, D80302, T48593, AW367967,

Clone	SEQ	No.	Range 1	Range 2	Accession Numbers
HLMFK70	2593	856861	1 - 187	15 - 201	AW179020, AW178775, AW178980, AW177733, AW178908, D80132, D80134, D51097, D58253, D51103, AR008278, D88547, Y12724, X82626, A84916, A67220, D89785, A62300, A62298, Y17188, AB028859, A78862, D34614, A94995, D26022, AJ132110, AR018138, X67155, AF058696, A25909, AR008443, I50126, I50132, I50128, I50133, AR066488, AR025207, A82595, AR016514, D50010, D13509, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB002449, AR066487, AB012117, A43192, A43190, AR038669, A30438, AR008408, AR066490, and AR060133.
HLMFK92	2594	571369	1 - 361	15 - 375	AC005486.
HLMFL71	2595	526928	1 - 354	15 - 368	AW361623, AI986246, AA535516, AW128941, AW337206, C16928, and C02317.
HLMFN24	2596	781780	1 - 313	15 - 327	AA150787, AA147514, AC006255, AR026676, AC003695, AC002091, AL050034, and AF083068.
HLMFN68	2597	799751	1 - 392	15 - 406	
HLMFR49	2598	842045	1 - 165	15 - 179	
HLMFR72	2599	799709	1 - 356	15 - 370	AW027339, and AA812373.
HLMFU09	2600	909666	1 - 372	15 - 386	AA004442.
HLMFU13	2601	657283	1 - 289	15 - 303	AL133246.
HLMFU39	2602	856872	1 - 326	15 - 340	
HLMFU52	2603	727197	1 - 319	15 - 333	
HLMFU90	2604	699667	1 - 323	15 - 337	
HLMFW19	2605	534799	1 - 302	15 - 316	
HLMGK40	2606	531355	1 - 337	15 - 351	AA668863.
HLMGK50	2607	927675	1 - 289	15 - 303	
HLMGP66	2608	799725	1 - 326	15 - 340	
HLMGP96	2609	531225	1 - 167	15 - 181	
HLMGY13	2610	921457	1 - 280	15 - 294	R98835, N52276, AA165353, AA583579, AA730488, AW085542, AA583568, AW270429, AA682889, AW270351, AI360504, AA052973, W42587, AL036070, AA322542, AW051819, H48413, AA363003, AL048275, T40550, F00564, T39390, AA470567, C15362, T30418, AI268019, N72170, R95840, AC005081, AC005015, AC007114, AL031259, AC007200, AC007687, AL136168, AC000120, AC005920, AL109809, AL132987, AC007225, AL008718, U95739, AF029308, AC004750, Z93930, Z83840, AC002466, AL022313, AC006011, AC002312, AC007051, AC005089, AC007919, AL049780, AC007055, AC005180, and AC005924.
HLMGZ09	2611	625638	1 - 290	15 - 304	AA205292, and AC005180.
HLMGZ33	2612	805813	1 - 295	15 - 309	AA938180.
HLMHD65	2613	799736	1 - 342	15 - 356	AL022331.
HLMHG83	2614	799770	1 - 383	15 - 397	

HLMHG84	2615	572412	1 - 99	15 - 113	AC006117.
HLMHH39	2616	823450	1 - 479	15 - 493	D87432.
HLMHH40	2617	878117	1 - 325	15 - 339	
HLMHH57	2618	714813	1 - 441	15 - 455	H44968, AI422305, AI554649, AI433337, AI250867, AI160234, AA503975, R50669, AI672302, AI870048, AW051623, W88425, AW363795, AB022524, AJ012652, and AB012162.
HLMHK16	2619	571414	1 - 317	15 - 331	
HLMHK58	2620	799782	1 - 437	15 - 451	
HLMHK61	2621	856848	1 - 342	15 - 356	AC002301.
HLMHK62	2622	579101	1 - 193	15 - 207	AA700441.
HLMHL60	2623	778481	1 - 220	15 - 234	
HLMHM63	2624	578838	1 - 219	15 - 233	AA765146.
HLMHN21	2625	516580	1 - 404	15 - 418	AA285377, AA283300, AW404274, and W24845.
HLMHN27	2626	856846	1 - 318	15 - 332	AI344280, and AW274081.
HLMHN31	2627	925730	1 - 1073	15 - 1087	AA809335, AA836164, AA972108, AA765694, AA836103, AI364926, AA485705, AA485839, AI357107, AI702527, AW084056, AI310575, AI340533, AA693331, AA127565, AA001397, AI334893, AA669025, X80340, M96857, U86379, AL137479, Y10655, AF068229, AF091084, AL137267, AL137558, AF093119, AL110225, AL080126, and X57961.
HLMHN37	2628	723081	1 - 339	15 - 353	AC005600.
HLMHN45	2629	668906	1 - 256	15 - 270	
HLMHO11	2630	964945	1 - 125	15 - 139	
HLMHO21	2631	799772	1 - 224	15 - 238	
HLMHO33	2632	799756	1 - 313	15 - 327	
HLMHP67	2633	967636	1 - 343	15 - 357	
HLMHP74	2634	953956	1 - 281	15 - 295	AA730448, AI174535, AI674840, T90861, AC004257, AF107258, AC003029, Z95116, AC005764, AC008015, AC004491, AL080274, AL033525, Z98044, AC005803, Z73979, AC000353, AL034376, D86993, AL035608, AC004560, AC004876, AC003035, AC005523, AC005529, AL049569, AL078463, AC002350, AL050318, AC004983, Z97054, AC007637, AL049712, AC016025, AC005553, AC005722, AC002558, AL109758, AF196779, AC006511, AC007278, AP000555, AC003101, Z99128, AC000379, AL133445, AC004659, AL080243, AP000038, and AP000106.
HLMHR25	2635	920711	1 - 297	15 - 311	
HLMHR55	2636	825530	1 - 204	15 - 218	
HLMHS31	2637	752375	1 - 308	15 - 322	AB028953.
HLMHS41	2638	574741	1 - 219	15 - 233	
HLMHS66	2639	574742	1 - 582	15 - 596	AA234939, AI016356, AI742982, AI089004, AA236782, AI468803, AA236830, AW242613, and AA234938.

HLMHT67	2640	579048	1 - 342	15 - 356	AA351877, AI377249, AI377250, AI239499, AC005274, AL132777, and AL023655.
HLMHT94	2641	531054	1 - 271	15 - 285	
HLMHU80	2642	799723	1 - 282	15 - 296	
HLMHW31	2643	536579	1 - 331	15 - 345	
HLMHY64	2644	866458	1 - 624	15 - 638	AI251696, AI224583, AI254508, AL036896, AI890297, AW38376, AA171400, AI439525, AW238341, AW189371, AA425283, AA642809, AI754926, AA807704, AA469230, AA218684, AI473671, AA669238, AA720582, AI185990, AI801479, AA707747, AA525423, AA679946, AA503298, R99253, AW270468, AI279417, AA601712, AI277373, AI754257, AA084320, AA286836, AW274078, AI278440, N26159, AA197089, AI890468, AA180056, AA713946, AA814503, AI904840, AI860423, AA523812, AI890111, AA828045, AI332615, AA224759, AI744199, AI733523, AA829565, AI913167, AI049994, AI869797, AI800426, AA873737, AW089625, AW328446, AI095206, AL078584, AC005529, AC005527, AL139054, AC006441, AC005940, AC006449, AL024498, AL022316, AC004636, AC004242, AC005225, AL121923, AL121754, AC004973, AC003104, AC006581, AL031347, AC004099, AC004382, AL109798, AC004870, AL122023, AC005520, U52111, AP000510, AC005288, AC006947, AC005914, AC006030, AL031427, Z99129, AC010077, AI251973, AL034420, AC005823, AC005081, AB023048, AC004797, AL021707, Z83840, AL049776, Z82245, U80017, AC006023, AF111168, AC003682, AF111167, AC005210, AC007066, AL049712, AP000089, AC004755, AL022237, AP000141, AC018769, AC007052, AF190465, AC005837, AC003969, AP000501, U73634, AC007488, AC005620, AC007030, AF196969, AP000359, U78027, AL021393, AC004156, AC004263, Y14768, AL031284, AF129756, AC009336, AC006538, AC003036, AD000092, AP000505, AL035072, AF205588, AF015720, AC003007, Z99774, AL022320, D87675, AL035422, AC005070, AC006211, AC006071, AC004638, AC002433, AC005412, AL049761, AL109839, AC005399, AL034548, Z95116, AL022097, AC002347, AC004448, AC007685, AL117258, AC005859, AP000503, AC005803, AL031311, AC005632, AL109963, AC003663, AL033533, AC006060, AL049869, AL033381, AL049793, U82668, AP000694, AF196972, AC007546, AC004967, AC004963, AC005908, AL031286, AC006277, AJ229041, AC002991, Z98051, AF130248, AC008154, AC002045, AC002470, U95742, AC005778, AC005937, AL023803, AL031602, AC004150, AL049552, AC004814, Z86090, AC007216, AL009181, AL078621, AC004409, AC005180, AL109827, AL035458, AC006101, AC004021, AC002369, AC005695, AC009288, AC007563, AC007536, U91326, AL031589, AC007708, AC016025, Z97630, AC005160, AC005231, AC002350, AL022165, AC004816, AP000354, AF134726, Z93017, AL023575, AL049759, AL035462, Z80998, AC005874, AF134471, AL033527, AC006948, AP000557, AC002314, AC007096, AL121652, AC012099, AC002544, AP000552, AC007390, AC004583, AL033392, AC008018, AC004004, AL049780, AC007068, AC005730, AC002302, AP000511, AC004887, Z81315, AC005411, AL035460, AF207955, AC002367, AP000104, AP000032, AC002094, AC005261, AC006197, U91325,

HLMHZ14	2645	1 - 190	15 - 204	AC007225, AL035071, AC005207, AC007324, AC004929, AC000353, AC003688, AL008718, AC005237, AL034549, AL035086, AC005841, AC007981, AB001523, AF030453, AC009275, AL049872, AC007845, AC005776, U52112, AC005821, AC007021, AC005344, AP000030, AP000211, AP000133, AL021978, AC004811, AL121603, AC004985, AC007774, AL031680, AC004821, AC005358, and AC005088.
HLMHZ59	2646	1 - 184	15 - 198	
HLMIC94	2647	1 - 279	15 - 293	AC002549.
HLMIE70	2648	1 - 289	15 - 303	AC009363, and AC007182.
HLMIF22	2649	1 - 132	15 - 146	AL031282.
HLMIG11	2650	1 - 289	15 - 303	AA559319.
HLMIG50	2651	1 - 572	15 - 586	AA569287, AA603349, AA639913, AA359559, AA524229, AA887181, AA359422, AA424170, AI569363, AW088581, AA491954, AA226519, AA081883, AA328334, AA485092, H61906, AL046471, AI962985, AA226204, Z98742, AC005972, Z83847, AC007277, AC006449, AC007216, AC005510, AC006251, AC005803, AL133445, Z98884, Z82180, AC006453, AL136295, AC004834, Z99716, AE000658, AC004707, AF038458, AC005280, AC006241, AL024507, AC004149, D83253, AF015720, AC004765, AC002565, AL078644, AC006441, AL031283, AC006120, AJ229041, AL096703, Z96074, AC006060, AC005529, AC004106, AL022721, AC004878, AF053356, AL034406, AC008372, AL031659, AL132826, AC002563, AC006539, AL109798, AC002300, AC007021, U95090, AL031005, AC005102, AL133163, AC005291, AC006512, AC005599, AC005484, AC007899, AC004821, AF207550, AC004382, AC002347, AC004750, AC004966, and AL031668.
HLMIG72	2652	1 - 317	15 - 331	H67040, W20228, AL049836, Z94160, AF196969, AC004509, Z97054, AC009501, AC006511, AL023753, Z82244, AF031078, AF030876, and AC002407.
HLMIH10	2653	1 - 387	15 - 401	T03401, AA811741, AA488689, W00856, AA192764, T41134, T07327, AII74489, AA470567, H72444, AA364082, AA368329, AA411590, F00937, AA736713, AA434346, H54729, AA827383, AA741403, AI018726, AA481765, T03928, AA634822, AA527030, T83057, AI143653, AA663373, AA748840, AA279649, AI130709, AI536858, AI537995, AW148775, AI814682, AI291439, R95840, AI928890, AA831801, AA230221, AW190277, AA832016, AA668727, T68315, AA626595, AA598889, N80390, AI683019, AA587835, AA214453, AA214457, AA489240, AA713735, AA598497, AW236235, AA605243, AA167809, AA740571, AI873627, N72170, AA910316, AA714073, AA339123, AW272640, H78898, AI040472, AA598740, AA533660, T46997, AA513884, AA135761, AA079076, AW090710, H63220, AW019964, AI150934, AA666066, AA084950, AA846014, AA525407, N47820, H43183, AA515351, AW239465, AI624038, AW337805, AA015948, AA584788, N55296, AA192293, AI362694, AI860535, AI903464, AA084439, AA584531, AI732176, N66744, AA594179, F19019, AI871691, AL039117, AA155817, H78855, AA680221, AA055667, AII14733, AI133552,

HLMIH44	2654	883871	1 - 524	15 - 538	AI003137, AI039257, AI870176, AA831997, T46998, AI669149, AI459879, AA564753, AA741301, AA601378, AA421536, AI002863, F25759, AA522864, AI054341, AA513484, AA525807, AA579082, AA827113, AI654520, AA485979, W69639, AI792623, AI003620, AA587826, AA573062, AA323838, AA132445, AA568950, AW162762, AA808064, X69951, Z83844, AL079303, AC006241, L78833, AL035414, AP000099, AP000036, U73648, AC002037, AC004500, AL031776, AL031680, AC005180, U55184, AL023574, AC005777, AC007193, Z72006, AL031719, AL132641, U95626, Z83820, AC005619, AL109939, AC004675, AC005409, AF088219, Z98941, U95742, AC007216, Z93848, L12582, AC005331, X64467, AP000348, AC007565, AC005566, AC004760, AC005778, AL031803, AP000255, AL033392, AC004587, AL109963, AL049575, AC000379, AC005841, AP000213, AC004522, AL109623, AL078581, AC004230, AP000347, AL035699, AL035588, AC005215, AP000135, AC004655, AC003689, AC004838, AC007631, AL096791, AP000031, AC000111, AF165926, AC008014, AC007736, AL021937, AC011331, AC006538, AC006115, AC005815, AC004025, AC006111, AC006146, AC005722, AF109907, L05072, AC005943, AC007204, AF043945, AC007537, AC003072, Z82208, AP000563, AC005895, AC002407, AC005057, AC004132, AL035400, AL031673, Z82201, AC004886, U52111, AC005730, AC002549, AC002094, AL132987, AC007842, AC002492, AL135744, Z74739, AC016831, M81596, AC005914, AC007157, M74558, AC005519, AC004647, AC005576, AL008630, AC004031, AL022327, AC002404, AL023656, AL030996, AC008115, AL135960, AJ131016, AL110200, AR060469, AP000214, L38592, Z49155, AC002481, Z69890, AF217403, U73330, AP000302, AF006487, AC005256, AP000534, AC006950, AD000864, AC005390, AC007292, AC002522, AC005197, AC005620, AC003111, AC000095, U93305, AF027974, AC005271, AL080242, AL022302, AC005214, U91320, AC003692, AL031602, AC003041, AC004131, Z98750, AL049612, AL023575, AC005606, AL109956, AL008734, AF003626, AP000221, AC007421, AL049538, AC006968, AL031594, AL035249, AP000046, AP000114, AP000074, AP000085, U89337, AL049610, AC005752, AC005300, Z98172, Z97876, AC002115, AL080316, AC005102, AP000952, Z95113, AD000092, AL049843, AL080276, AL031447, AF196969, AL008730, AC005277, AL109627, AL050307, AL132826, AC008044, AC006543, AC005839, Z98745, AC002418, Z83846, AC005681, Z82203, AL031643, AF064861, AL020997, AC004590, AC004967, U62317, AL031904, AC003969, AC006317, Z83843, AC005913, AC004593, AL049588, AC005915, AC007676, AC004895, AL080286, AC009501, AC004674, AC007179, AC002349, AC009542, AC010205, Z98884, AC006441, AC007387, AC005598, AC012085, AC004882, AC004386, AC003013, AC006385, AC005697, AC009330, AF196779, AC004485, AC005678, AC004106, AC009509, AC006946, AC005323, L44140, Z99716, and AF111168.
HLMIL62	2655	799713	1 - 422	15 - 436	AA773956.
HLMIM73	2656	576692	1 - 336	15 - 350	AL133485.
					AI880829.

Clone					Accessions
HLMIO47	2657	531224	1 - 173	15 - 187	
HLMIP23	2658	686670	1 - 700	15 - 714	R93381, H53163, H28130, R93382, H53060, AW015657, AI092249, T86432, H49391, AW190127, AA625561, AI339159, AW250827, AI357128, AI148823, AI818046, AA579979, AI439571, AI095655, AW246805, W72325, AA379087, AI817450, AI761511, AA625749, AA099988, AW081185, AW389525, AI885881, AA745180, AA805668, H64600, AA211386, W72109, U51698, AA973184, AI358231, AA379088, AA765921, AI744539, AI885882, AW377601, AA291023, AI933181, AI872742, AA992858, AI911887, AI337237, F37915, AA317577, F34702, W77795, H49202, AA732721, AC003103, AF161395, AJ249940, and AF083208.
HLMIQ11	2659	921009	1 - 772	15 - 786	AI034373, H01560, AI760723, AI741933, AI808161, AA829766, AA768221, AA848005, AA824447, AA848006, AA766456, H01464, AA835854, AI222026, and T18554.
HLMIQ72	2660	715650	1 - 358	15 - 372	Z82206.
HLMIQ73	2661	764522	1 - 386	15 - 400	
HLMIQ93	2662	576657	1 - 310	15 - 324	AL031651.
HLMIR23	2663	916938	1 - 345	15 - 359	AB020864.
HLMIR40	2664	578756	1 - 433	15 - 447	Z82243.
HLMIS03	2665	924651	1 - 337	15 - 351	AC009731.
HLMIS16	2666	572430	1 - 256	15 - 270	
HLMIS64	2667	572509	1 - 348	15 - 362	
HLMIS77	2668	971141	1 - 298	15 - 312	AI880168, AW074398, AA435854, AW169687, AI344844, F19258, AA548137, AI345654, W60516, AA515224, AI205126, AW193295, AA747472, AW265654, AI890928, AI160117, AI914706, AW327360, AI963786, AW265197, F29989, AW261871, F28576, AI569086, AI890570, AW166815, AA229785, AI079910, AI865364, AW188544, AI445436, AI708009, AI674873, AI962050, AI358229, AA308806, AW406755, AL079645, AI365988, AI890923, F36273, AI917271, AI284640, AI929531, AA581903, AI051551, AW339687, AL042856, AA559290, AI635272, AW302709, AA244415, AW162049, AI904894, AA515051, AA579184, AL041368, AI818620, AI471374, AI951495, AI357551, AI003743, AI339850, F25203, AW264969, AI252085, AI557323, AW238016, AI252114, AW264973, AL041146, AI792903, AI792864, AI733957, AL038785, AI734002, AW130799, AI623720, AI890052, AW029038, AA641103, AL138265, AW169230, AI251002, AI433187, AI610159, AW080134, AI038279, AA179136, AI349874, AI521618, AA599021, F24284, AI110770, AI473943, AI298710, N71724, AW090811, AW337985, AW338869, AW341892, T71998, AW419262, AI802526, AA715270, AI499503, AA482711, F18974, AI921188, AI471481, AA347927, AW088616, AC006237, Z98950, AP000354, AF134726, AC004065, AC005632, AL049871, AL049775, AC004685, AP001054, AC005827, AC006137, AL031983, AC004816, AC005295, AC005412, AC004931, AC006299, AC005696, AF001552, AC005815, AC005822, AP000292, AL008708, AC005164, AF039905, AC004451,

HLMIS85	2669	578751	1 - 315	15 - 329	
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				AA148615, AA826983, AI002177, AA832130, AA501575, AA911524, N94192, N42040, AL048544, AL038936, AW380074, AL046678, H21449, AA176605, AI338426, H42075, R59567, AL043098, AW438916, AW075915, AA172191, N27833, H96518, AL044590, AA319830, AA304977, F32893, AL038909, AA321105, AI471418, AW270258, H15814, AA379332, AI744949, AA226584, AA513850, AA381762, H60188, AA713922, AA381747, AL040473, AI886060, F18350, AA226270, R39626, AI500454, AA744444, AW247819, D44678, AI886365, AI925321, AA745356, W90237, AA570416, AA987962, AA528441, AA379133, AA461308, AA574442, AA488620, N27362, AA599352, AA410926, AA610509, N69316, AA747243, AI298281, AA720746, AW008237, AA804993, AI912322, AW236342, AW078495, N54764, AI932884, AW440976, AA573127, H72688, AA215335, AI446601, AI244758, H55914, AW341903, T48341, AA548087, AA084070, AI075266, AI613419, AA648044, AI291124, AI223616, AA984191, C16699, N27651, AI625468, AI291268, AI537030, AI926681, AI282336,				

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HLMIS89	2670	1 - 351	15 - 365	AI860677, AA737150, AW129694, AI908628, AA608667, AA657741, R07395, AA213741, AI250019, AI144055, AA758143, AA928904, H52974, AA729471, H48865, R97934, AA513293, AW057776, C05694, AA603156, AA843878, AA055601, R10488, AC003003, AC004814, AL035424, AC004821, AC004797, AF069074, AC002565, AC004996, AP000952, AC002425, AP000500, AC004885, AL110502, AC004918, Z15026, AC004181, Y14768, AP000505, AF129756, AC006142, AC006238, AC000087, AC002418, AP000234, AP000148, AP000233, Z83843, AC004386, AC004527, AC004498, AC005390, AC004596, AP000503, AP000496, AC004217, AC007161, Z86061, AC004835, AL121825, AC007237, AC004231, AC005288, AL022097, AC005399, AL121657, AC004832, AL022067, AF134726, AC005823, AC005746, AC005971, AF048990, AC005186, AF222685, AL035420, AL020995, AF001550, AL031733, AL050326, AC007450, U91319, AC005826, AC000111, U91326, AC005358, AC004167, Z83846, AC006379, AC007151, D45371, AB012165, AL121653, D87001, D86993, Z83855, D88268, AC002559, AC002369, AC002996, Z93017, AC007023, AC005304, AC007371, AC006566, AC005015, U95742, AL121658, AC004765, AB032486, AC005567, AC005360, Z83845, AC004864, AC005740, AC005034, AC008124, AC008067, X74984, AC007216, Z68322, AF148319, Z84723, Z72521, Z69890, Z74019, AC005361, AL031721, Z86001, AC005946, AC000039, Z97183, AL031393, AC005306, Z82097, AC004651, AL121846, AC004236, AC005796, AC006273, AB008681, AL031058, AP000255, AL035072, AL031575, AC005755, AL049653, AC004922, AC004938, AC005480, Z94160, AP000213, Z85999, AL008635, AC002115, AC004584, AC004263, AL031774, AP000135, AL034379, AC002551, AL034420, AL034425, AL031984, Z84720, AP000351, AC006088, AL022326, AL034402, AC006019, AC008044, Y18000, Z93016, AC007283, AC004000, AC002073, Z82214, AC004253, AL035067, AL009028, AL080317, AF114156, AC006455, AC002432, AC005913, AP000031, AP000556, AC004921, AC004020, AC020663, AC006157, AC006512, AC005242, AP000350, AP000356, AC008275, AC005225, AC007263, AL035405, AC006600, AC004882, AC008064, AP000355, AL035089, AC016027, AC011362, AL080243, AC005696, AC006265, AC008080, and AC005081.
HLMIT37	2671	1 - 220	15 - 234	
HLMIT43	2672	1 - 295	15 - 309	AI188748, and AI188321.
HLMIT76	2673	1 - 358	15 - 372	T82950.
HLMIV09	2674	1 - 391	15 - 405	
HLMIW07	2675	1 - 280	15 - 294	U50537.
HLMIW89	2676	1 - 187	15 - 201	
HLMIW90	2677	1 - 310	15 - 324	AW051629.
HLMIX61	2678	1 - 693	15 - 707	AI332830, AI887069, AA883715, H43750, AF031077, AF031078, and AF030876.
HLMIX95	2679	1 - 683	15 - 697	H14342, AI333974, AW015007, AI565858, AW387086, AW387096, AW062872, AW178917,

HLMIY56	2680	571401	1 - 296	15 - 310	AL122052, and AB018336.
HLMIZ02	2681	920426	1 - 366	15 - 380	AL034408.
HLMIZ25	2682	825087	1 - 258	15 - 272	AL135476, and D63478.
HLMIZ40	2683	715586	1 - 241	15 - 255	
HLMJA05	2684	932173	1 - 363	15 - 377	
HLMJA30	2685	955980	1 - 345	15 - 359	AI902968, AI902983, AA291228, D31488, AA324899, D31516, AI969121, AC004235, and AC004034.
HLMJA66	2686	799731	1 - 343	15 - 357	
HLMJA83	2687	712447	1 - 491	15 - 505	
HLMJB04	2688	968284	1 - 293	15 - 307	F19459.
HLMJB23	2689	578827	1 - 309	15 - 323	
HLMJB60	2690	924974	1 - 341	15 - 355	AL042756.
HLMJC35	2691	576944	1 - 287	15 - 301	
HLMJC76	2692	770177	1 - 345	15 - 359	
HLMMA16	2693	576612	1 - 308	15 - 322	AC011504, Z93930, AC006398, AP000247, AL049759, AL020997, U95090, and AC005049.
HLMMA52	2694	920292	1 - 453	15 - 467	
HLMMA76	2695	799741	1 - 326	15 - 340	AL023653.
HLMMC72	2696	760717	1 - 302	15 - 316	
HLMMD05	2697	932127	1 - 401	15 - 415	
HLMMD26	2698	799743	1 - 337	15 - 351	
HLMMD28	2699	959900	1 - 173	15 - 187	AC002400.
HLMMD89	2700	920442	1 - 149	15 - 163	
HLMME77	2701	710989	1 - 395	15 - 409	
HLMMF24	2702	677303	1 - 498	15 - 512	W38578, AI476515, AW207177, AI630843, AI340048, AI807826, AI440328, AI766156, AW136049, AI990469, AI830815, AI951610, AW139134, AI745414, AI620207, AI417731, AI479435, AI700511, AA342377, AW241823, AW139388, AW439228, AI433438, AA935611, and AA872559.
HLMMF82	2703	571403	1 - 262	15 - 276	
HLMMG02	2704	920427	1 - 352	15 - 366	AC006274.
HLMMG23	2705	881361	1 - 331	15 - 345	
HLMMI18	2706	666575	1 - 421	15 - 435	AC007690.
HLMMI86	2707	678672	1 - 331	15 - 345	M63543, and M63544.
HLMMJ08	2708	959630	1 - 427	15 - 441	AI685869, AD000812, and AC002126.
HLMMJ37	2709	577571	1 - 354	15 - 368	
HLMMK28	2710	577670	1 - 447	15 - 461	

HLMMK39	2711	576167	1 - 303	15 - 317	AA400917, AA652249, AC005069, AL133216, AC006213, and AL021307.
HLMMN01	2712	657354	1 - 264	15 - 278	AI792650, and AP001065.
HLMMN32	2713	576180	1 - 430	15 - 444	AA299728, AI336771, T08386, H58891, AA487512, AA579399, AW408767, AA846482, AI890283, AC006538, AC004967, AL022328, Z93930, AC004983, AL132987, U91323, AC004776, AC005988, AL050308, Z98304, AL034548, AF222686, Z86061, AC007685, AP001067, AC002448, AJ011930, AB020863, AC004890, AC005157, AP000046, AP000114, AC002492, AL049856, AL109618, AC007687, AF205588, AL020995, AP000317, AP000119, AP000051, AP000166, Z99128, AC005015, AC006960, and AC004921.
HLMMN91	2714	795915	1 - 387	15 - 401	
HLMMO61	2715	740655	1 - 272	15 - 286	
HLMMP25	2716	576166	1 - 326	15 - 340	AI394634.
HLMMP68	2717	799715	1 - 351	15 - 365	AF008203.
HLMMP69	2718	754221	1 - 294	15 - 308	
HLMMP75	2719	876036	1 - 323	15 - 337	H00150, and T20044.
HLMMP88	2720	793125	1 - 671	15 - 685	
HLMMR20	2721	799720	1 - 432	15 - 446	AP000331, AP000172, AP000057, AP000125, and Y17293.
HLMMR39	2722	711503	1 - 271	15 - 285	N62666, AA857377, AA205304, AI762045, AL022328, AC006312, AP000502, AL022326, AL034548, AL034423, AF134726, AC005668, AC005488, AC006044, and AC007537.
HLMMR45	2723	799771	1 - 434	15 - 448	AI249526, N52227, AI963514, AA404287, AA401240, AA287872, AA494038, AA700551, AA704781, AA490908, AA420998, AA421078, F32710, AI241835, AA236867, AA237066, AA188992, AC007371, AP000354, AL096701, AC005668, AC006285, AL035587, AL121653, AL008721, AC007686, AF001550, AC002470, AL049776, AC004890, AL024498, AL117258, AC004814, AC005839, AL122020, Z98051, AC005820, Z85987, AP000557, AC005480, AF196970, AC003101, AC005578, U62293, AC005921, AL049759, AL133163, AL008729, AL008582, AP000556, AC004694, AC005702, AC005057, AL096712, AC006561, AL121769, AC004796, AL020993, AC005225, AC007308, AC004883, AC005920, AC006017, Z68276, AL022313, AC004019, AL080243, AL022163, AC004983, AC006322, AC007878, AL109653, AL035458, AL109798, AC005500, AL022328, AC005291, AP000512, AB023049, AC004231, AC016025, AC005332, AC002422, AC005887, AF129756, AC005726, U95090, AC005082, AL121694, AC006271, AC005280, AL022318, AC004103, AC002395, AL031055, AC008012, AL023799, Z46936, AC005755, Z85986, AC007731, AC007011, AC005288, and AC002522.
HLMMT08	2724	959578	1 - 672	15 - 686	W90795.
HLMMT22	2725	799737	1 - 416	15 - 430	
HLMMT72	2726	799719	1 - 323	15 - 337	AF111170.
HLMMT74	2727	506234	1 - 353	15 - 367	

HLMMT76	2728	578143	1 - 296	15 - 310	T90204, and AA658177.
HLMMU42	2729	424663	1 - 289	15 - 303	
HLMMV25	2730	799718	1 - 447	15 - 461	W87501, AL138252, AL021938, U52112, AC004802, AC000091, AC005258, AC005519, X63735, AC006430, AC002477, AC005264, X78262, AC008041, AC004463, AL034548, AB022785, AC005377, and AL035414.
HLMMV63	2731	463919	1 - 544	15 - 558	AA490121, and AA668334.
HLMMV65	2732	799706	1 - 441	15 - 455	AC004983, and AC003043.
HLMMV66	2733	926188	1 - 436	15 - 450	AI921541, AI808637, AI792451, AI054048, T29020, AW084519, AA614014, AW271140, AW207518, AA525796, and D30758.
HLMMW06	2734	935621	1 - 259	15 - 273	
HLMMW07	2735	953833	1 - 343	15 - 357	AC002302.
HLMMW29	2736	577160	1 - 293	15 - 307	
HLMMW33	2737	702478	1 - 270	15 - 284	U63312.
HLMMW37	2738	577153	1 - 341	15 - 355	AC002313, and AC002111.
HLMMW44	2739	716797	1 - 372	15 - 386	AA604843, H85059, AW069227, AA664604, F32893, AA878140, AI679294, AA604865, AW302048, AI689019, AI679871, AW438616, R92640, AW103383, AI471418, AI275183, AI634187, H79633, AI457313, AI002261, AA448838, AA574442, AA508873, AA857381, R95748, AI307201, AA311071, AA357987, R83585, AW189068, AA812058, AA613754, H55894, AW402145, AI754291, AA602458, AA528390, T03412, AI124798, R96643, AA393830, AA350886, AI939442, AI962030, AI289962, AA668587, AA558003, AI571543, F29541, AI963856, AA669102, AA488419, W45215, AW275953, AA488620, AA508578, AI500453, AI832865, AI708005, AA832145, AA599495, AI473701, AI279759, AA662974, AW088058, AW238016, AI627581, AI609223, AA721235, R32162, AI292236, N67387, AA457771, R59868, AA302970, AA610509, AW190505, AW072923, AA309287, AA706209, AA601986, AW373604, AW189353, F03525, AA461308, AA744036, AA904137, AA669647, AA599352, AI569510, F17858, AA492298, AA513141, AC002312, AL049779, AL031291, AC006441, AJ131757, AC016026, AF207550, AC007878, AL050318, AL008723, AC007243, AC004383, AF111168, AC007386, AP001054, AC005046, AL031602, AC000379, AL133448, AC004230, AL031447, AL031597, AC005911, AC004149, AC005908, AL049843, AL022324, AC003037, AF001549, AL035258, AC003003, AC006965, AP000346, AC006515, AL031591, AC007051, AC007032, AC005004, AP000553, AP000347, AL049872, AL031595, AL079305, AF178030, AL035420, AL078624, AC002536, AF064858, AC007845, U96629, AC006285, AC004453, AC007057,

HLMMW5 5	2740	815997	1 - 215	15 - 229	AC003007, AC005412, AL110502, AC005632, AC016025, AC006121, Z86090, AL133304, AB020868, AC009501, AC005081, AC005099, AC002300, AF045555, AC007899, AC004928, AC005189, AL049745, AC004582, AC005822, AC004659, AL031775, AC007283, AC004448, AC002381, AC007444, AC004924, AB023049, AC007736, AP000103, AC006229, Z68288, AC007151, AC009178, AC006257, AL031120, AC005094, AL050321, AC008009, AC006992, AC002452, AC005900, AC000082, AC006012, AC004764, AC005284, AC007566, AL121820, AC005921, Z84488, AP000350, AC004967, AP000705, AP000269, AC004647, AP000354, AL049569, AC007372, AL132985, AC007461, AL049837, AL096710, AC005369, AC005837, AP000355, AL049874, AC007225, AL133500, AC004382, AL035587, U07000, AC010582, AC006130, AP000356, AC011311, AC006465, AC004167, U82828, AP000512, AC007263, AL021808, Z97989, AL117356, AL121782, Z99129, AC004471, Z96074, AL031432, AC016831, AC004002, AC007304, AC007226, AP000108, AP000040, AF111169, AC004854, AC005736, AL022722, AL008715, AL080286, AL049776, AC006026, AC006271, AC007242, AL022476, Z93020, AF015262, AL031848, AP000248, AC005914, AJ229043, AC005399, AC004142, AC005384, AL034555, AC000353, U91327, AL031133, AC007201, AC002544, AC006538, AF130343, AP000345, AC007652, AL079334, AC008012, L78833, AC006251, AL023553, AP000496, AC003991, X87344, U85195, AC005730, AC007676, Y10196, Z95125, AC005566, AE000658, AC005726, AC003029, AP000252, U47924, AC002554, AC005332, AC006160, AC002546, AC004066, AP000212, AP000134, AF126403, AL133163, AF190465, AC005029, AC003689, AL078462, AC000059, and AC007237.
HLMMW7 1	2741	761346	1 - 239	15 - 253	H59354.
HLMMW7 7	2742	577150	1 - 290	15 - 304	AA300028, and AA299804.
HLMMX19	2743	861317	1 - 580	15 - 594	AA630476, AI797998, AI360521, AI174703, AW403177, AL036896, AA382050, AI433952, AL121039, AI702049, AW020094, AA526542, AA425283, AI355246, AW265468, AI572680, AW419201, AA491941, AW410409, AW021399, AI547110, AA631915, AW148964, AI819419, AA084439, AI252005, AI254463, AA601376, AA199578, AI813920, AW023975, AI065031, AI798521, AA809125, AI570067, AW243817, AA493546, AI114543, AA640305, AW410844, AI150934, AA133568, AA199582, AI732690, AI439525, AI567676, AI242236, AA167656, AA524604, AI003068, AI753904, AA814719, N27362, AA598608, AI064968, AA632355, AI744963, T34066, AI568376, AI889236, AW104161, AI052366, AI889177, AW085626, AA555232, AA533066, AA557945, AI702018, AI343986, AI701898, AA601712, AI370470, AI745666, AW007420, AW069273, AW151247, AA593168, AL044966, AI445768, H53546.

					AW182182, AA551105, AA148618, AI031759, AI285651, AA524800, AI040051, AI675913, M77888, AA600127, AI760835, AA533040, F23338, AA482725, AA493245, AI312614, AL037910, AI733523, AW192930, AI311796, AA525753, AI925588, AA421536, AI308529, AJ003147, AC005730, AC002310, AL079342, AC007367, AL049869, AC005484, AP000512, AL049694, AC005619, AF129756, Z98742, AC005921, AC006597, AC004796, AC004150, AC005071, AC005696, AC004659, AP000552, AC005412, AP000504, AF205588, AF111168, AC004997, L44140, AC005585, AC005602, AC002314, AC005971, Z97054, AI020995, AC006511, AL022721, AL080286, AC006011, AC002091, AC004922, AC005082, AC005828, AC005632, AL022316, AC004985, AC018633, AL121658, AC008044, AC004967, AC005527, AC005529, AB017602, AC004895, AL022165, AL049697, AL031575, AC004477, AC004859, AP000499, AC004692, AC005365, Z84466, U91318, AC006530, AL080243, AF134726, Z83838, AC000025, AL031848, AC005041, AC012384, AF196779, AC007546, AL080317, AC005919, AL009181, AF165926, AP000952, AC007160, AF075069, AC003685, AC004999, AC002470, AC002404, AC005261, AC005876, AC005746, AB026898, AC008372, AL133448, AL080250, AL121652, Z97630, AC006121, AE000658, AC005046, AC005913, AC002366, AC006080, AL133243, AC005193, AC006509, AP000346, AL049830, AF053356, AL031668, AF060568, AC005037, Z83844, AC005224, AC004805, AC002349, AP000503, AC005280, AL117337, AC004686, AL031666, AL133304, AC005519, AC005399, AL133289, AC004703, AC007421, Z93930, AL034420, AC005754, AC005695, Z84469, AD000671, AC007371, AL035587, AL024474, AC006088, AC006544, AL035445, AL021154, AC002364, AC004552, AC005410, Z93244, AF001548, AL049795, AC002996, AC003665, AC004084, AL022149, AL034402, AC005479, AL079295, AC006211, AC006512, AL031433, AL133163, AC005740, AL022163, AC006581, U52112, AC002126, AC007899, AC005387, AL008582, AC004821, AF038458, AC007390, AC004893, AC007842, AC005231, AL136504, U91327, AL031311, AC007564, AC003982, L47225, AC005666, AC002312, AC003007, U80017, AC005755, AC005089, AC006312, AL031657, AC005881, AC007566, AL121655, AP000553, AC006515, AC007510, AC006449, AC005081, AC005856, AC004814, AC007381, Z84474, AC004223, AC004882, AC005317, AC007192, AL117258, AC002551, AC006241, AP000365, AL117330, AC004228, AC007226, AC004125, AP000547, AC002991, U78027, Z77249, AC004969, AC012099, AL031427, AL031290, AC005393, AC007124, AL050324, AC004797, AL136130, AC005232, AC005031, AC006116, AL121754, AL049764, AL031678, AL031680, AC002120, AC002306, AC005694, L47226, L47224, AC004752, AL035659, AF196969, AC004804, AL122023, AD000091, AL121657, AC003025, AC005015, AL034417, AL022323, AC005822, L78810, AL136295, AC006960, AL132712, AP000556, AC007227, AL034343, AL049777, AC004783, and AC006946.
					W73175, W73147, and AF086335.
HLMMX57	2744	734985	1 - 375	15 - 389	
HLMMX72	2745	760651	1 - 221	15 - 235	

HLMMX73	2746	764455	1 - 334	15 - 348	AW020095, AI538885, AI686576, N22276, AI859693, AA810985, AW161402, AI811192, AA420722, AI440238, AI334893, AI340604, AI345639, AI349960, AI310930, R80916, AI345745, AI377163, AI348995, F35534, AW084447, AI336495, AA761079, AI254457, AI312993, AW021059, AI680194, AI345014, AI520964, AI624138, AI002285, AI440397, AW089379, AI348895, AL045672, AI758538, AI567582, AI307520, AI345026, AI307454, AI352363, AI345562, AI340664, AI310592, AI307542, AI345817, AI288076, AI344808, AI345739, AI345674, AI671642, AW021189, AI312143, AI349637, AI312168, AI344843, AI334920, AW071276, AI344779, AI310927, AI307515, AI307578, AI336488, M85164, AL133640, AL137479, Y10655, AL122093, AL050116, AF033827, AL137267, AL049276, AL117435, AF175903, U79457, AB007812, Y07915, AL122110, AL117575, AL117438, AR022283, I52013, AL049426, AL137465, AL137641, AL110280, AB016226, AF118090, AL117457, AL136842, AF201468, AL137262, U89295, AF145233, I33391, AF069506, AL137258, AF042856, E13052, U53505, and AL110269.
HLMMX85	2747	783429	1 - 192	15 - 206	
HLMMY01	2748	916636	1 - 568	15 - 582	AI050812, AI827703, AI827584, and AF127916.
HLMMY03	2749	924511	1 - 506	15 - 520	
HLMMZ13	2750	856802	1 - 444	15 - 458	AL135357, AA064815, AA707879, AC006947, AC005399, AC002563, AC005411, AC004148, AL024507, AC004106, AC002470, AL121652, Z83822, AC005538, AL096791, AC005031, AP000555, AC004998, AC007129, AC004491, AC006430, AC005921, AL022320, AL096763, AL031680, AC006271, U80017, AC005300, AC005666, AL049779, AC005180, AC007685, AL031311, AL031643, AF200465, AF111169, AL121578, AC007773, AC007263, AC006441, AC006946, AL021154, AC006966, AC007649, AC006515, AL022312, AB003151, AF139813, AL133353, Z83844, AC005179, U52111, AC005821, AC003684, AC005332, AC002045, AC002430, AL009183, AP000044, AP000112, AL121655, U95742, AC005620, AC007066, U95743, AC007384, AB020868, AC004983, AP000690, AC007216, Z97876, AF024534, AC002350, AF111167, AC004499, and AC006014.
HLMMZ16	2751	927659	1 - 143	15 - 157	AI832562, AA115758, AA112944, and Z93784.
HLMNA14	2752	918207	1 - 680	15 - 694	AW007018, AI797782, AI082366, AI004621, AI961043, AI568510, AI479909, AW243347, AW005434, AW072053, AW205104, AI950423, AA220947, AI824907, AW136734, AA932943, AA227014, AI937632, AI654366, AI968787, AW137409, AW136158, AW137226, AA126260, AI392819, AI420238, AI656029, AI420881, AW051726, AI199450, AI767282, AI206270, AI700009, AI245711, AI738987, AI738427, AI860164, AW302243, AI936399, AA888132, AI805239, AI738729, AI474889, AW197199, AA218581, AI568827, AI382249, AA662157, AA398373, AA887699, AA582927, AA126364, T85626, AI878821, AI684228, and AI498040.
HLMNA84	2753	577572	1 - 725	15 - 739	AI554874, AA228131, AA227984, AW377797, AA227774, and AA227773.
HLMNA88	2754	856809	1 - 428	15 - 442	AA935428, AW002831, AA507814, AI186438, T06210, AA492584, AA558404, AA303055, T94140, AW104163, AI870453, AA365135, AA772906, AA668291, AA225406, AW272294,

HLMNA91	2755		1 - 434	15 - 448	H65824, AI452836, AI587467, AA713705, AA599712, AA779783, AI369580, AA484164, AA831903, AI217131, AL048802, AI635028, AA224593, AA720582, AI274011, AI923451, AA508036, AA525293, R64617, AL134332, AI860751, AI923458, AI918419, AI580707, T10586, T56727, AA515138, AA487569, AA516320, AA747234, H71678, AC006965, AC004865, AC005291, AC007130, AL118510, AC004778, AL031672, AL008718, Z97353, AC010205, AL109627, AC004491, AC006120, AL135744, AL035685, AL035458, AL035405, AL031121, AL022327, AP000555, Z84484, AC003013, AC004836, U52112, AC005274, AL033517, AC006960, AF205588, AC002300, AC005696, AL050321, AL022320, AL035410, Z95115, AC004106, AC006312, AC005015, AL009181, AL049779, AC006013, AC005049, Z99127, AC007686, AP000556, AP000557, AC006449, AL034420, Z93020, AP000884, AL035400, AL049539, AC006455, AC002429, AF001548, AC002476, AC006121, AC008372, AC004686, AC006479, AC000025, AC005280, AC008273, AC002312, AF109907, AC004098, AC011311, AC004000, AC007687, AC006165, AB023051, AP000512, AC008249, AC007199, AC005002, AL031643, AF001550, AC005409, AL034351, Z98304, AC004605, AC007016, Z85987, U82828, Z83847, AL049843, AL034400, Z95116, AP000696, AC003010, AC005529, AC005921, U80017, L78810, AP000288, Z82097, AC005563, AC005784, AC006071, AP000109, AC003104, AL008635, AL035419, AL049759, AC004881, AC007041, AL031594, AL080243, AC004913, AP000256, AC006254, AF053356, AL117339, Z98946, AC004020, AL031589, AC005225, AC006946, AL035699, AC003041, AC007934, AC005288, AC018633, AC005180, AC005037, AL109758, AC004933, AC008085, AC003029, AP000098, AP000692, AC004859, AL031685, AC002456, AC002369, AC003108, Z94721, Z98048, AC004209, AL031283, AP000008, AC007371, AL009172, AC003982, AP000704, AC016027, AC005871, Z83838, AC016830, Z93023, AF196779, AL035658, Z93017, AL022319, AC004167, AC003663, AL096774, Y14768, AC004998, AL136504, Z98050, AC006487, D42052, AC004531, AL034561, AP000505, Y08837, AC005913, AP000466, U95739, AC005368, AL035417, AF035587, AC004656, AC004031, AL031279, AL049748, Z82174, AC003967, AJ225782, AL109852, AP000243, AL050341, AC007129, AC004743, AL034551, AF159056, AC003667, Z97989, AL133353, AC005618, AC005736, AL035587, AC007011, U93305, AC005043, AC004890, AC004216, AP000493, AL139054, AL031767, Z97056, AC005837, AC004647, AC007842, AL034553, AB014077, AL117337, U89335, AP000041, AL035078, AL031846, AC004242, AC000353, AC005822, AL022323, AF003626, and AC003025.
HLMNB08	2756	765862	1 - 348	15 - 362	AL135666.
HLMNB94	2757	959559	1 - 245	15 - 259	AA730982, AA278761, and AA815056.
HLMNE84	2758	575838	1 - 348	15 - 362	
HLMNG08	2759	760695 876147	1 - 902	15 - 916	AI732794, AI821335, AI379196, AA486273, AA486272, AIT34181, AA228776, AI821049, T64007, AI865113, and T64086.

HLMNG68	2760	921008	1 - 328	15 - 342	H01560, and AI034373.
HLMNH23	2761	787043	1 - 419	15 - 433	
HLMNH25	2762	575921	1 - 393	15 - 407	W92492, and T80433.
HLMNI37	2763	920361	1 - 357	15 - 371	
HLMNI69	2764	531356	1 - 224	15 - 238	
HLMNL01	2765	835623	1 - 256	15 - 270	AC003111, and AC004798.
HLMNL06	2766	935626	1 - 456	15 - 470	L44341, AA283762, AA825204, AA282978, AW150394, AI460103, AA130647, F19258, AA601492, AI679379, AI679888, H54443, AA079421, H55779, AW172908, AA364488, F13749, AA467730, AA847099, AA603323, AL135643, H84359, H62778, AI751162, AW162288, AI124660, AA878149, AI696793, AL047317, AI537185, AA078677, AA443065, N55357, AA714140, AI025517, AI709066, AA225155, AA658235, AI689019, AW276435, AI193694, AA947837, AA554293, AA482757, AI138344, AA526514, C06471, AI867044, AA654627, AL039187, H69588, Z30128, F29989, R54896, AI286264, AA650244, AA776971, AA772016, AW238127, AA385100, AI358229, AW406755, AI467877, AW157005, AI365988, AI028510, AA319218, AA558697, AA299601, AW003434, AI610603, AW339687, AI801591, AI914913, AI635272, AA021552, AI499503, AA558269, N87410, AA826144, AA243452, AA321719, AA310158, AA496901, W38648, AI301218, AA482788, AI287528, N43757, AL040462, D56053, AA077952, AA252763, AA516207, H68112, AL041368, AW271917, AA450199, AA577748, AI345522, AI357551, AA569202, AI344844, AI287787, AI561335, AI907884, AI913017, AL119438, AI149915, AI921649, AI378729, AA828696, AW304531, AA228329, AC005529, AC004854, AL096701, AC003035, AL035400, AC007688, AL109984, AC006285, AC002430, AC016025, AC007384, AC006273, AC005086, AL033539, AC005089, AC005527, AC000025, AC005288, AL121694, AC002991, AC005971, AC004794, AC000076, AC005399, AC005839, AC018769, AF148319, AC006996, AL031577, AC005531, AC004098, AL117258, AC004531, AC004386, AL109827, AP000502, AL021808, AL021707, AC006449, AC002480, AC006476, AF196779, AL021546, AL049757, AC007546, AC005062, AC007021, AF128893, AL031281, AC006013, AD000090, AL034349, AL050325, AL031685, AL034420, AL133382, Z86090, AC006509, AB017654, AC004076, AC003041, AL050341, AL080242, AP000692, Z83849, AC009501, AC005264, AC003046, L78833, AC005324, AC006012, AC008033, AL132642, AF053356, AC004622, AL031255, AC005747, Z69917, AC003982, AC006208, AC002418, AC004966, L78810, AL035415, AC005932, AB003151, AC007199, U52112, AC007899, AL080243, AC005696, Z82198, AL133371, AC007845, AC005914, AL049539, AC004596, AB023052, AC007226, AL096763, AC007216, AL031650, AC004019, AC000015, AL034419, AC005746, AL132712, AL023513, AC007216, AL010205, AL022237, AL034423, AC008079, AL049795, AC006064, AC004236, AL031280, AC010205, AL022237, AP000128, AP000206, AC010197, AC007878, AC006511, U73168, AC005409, AC004913, AP000128, AL034429, AL008629, AC005776, AC000134, AL035407, AC004491, AC003958, AC005940, AC005776, AC000134, AL035407, AC004491,

HLMNL08	2767	839948	1 - 402	15 - 416	AC004975, AP000215, Z93783, AC004895, AC002554, AC005049, AC002116, AC005837, AC004099, AC005225, AL022721, AP000474, AC002476, AC007030, AC012599, AL022336, AC005786, AC003667, Z84480, AP000704, Z83822, AP001051, AC005019, AC002565, AL023803, AL022316, AC006111, AC002470, AC004534, AC002064, AC005193, AL033527, AC002485, AL049780, AL133304, AL031848, AL024498, AF107885, AC006530, AC005209, AL034417, AC004152, AF027390, AC000021, AC000022, AF164343, AL033533, AC020663, AC007707, U62317, Z85987, AC004542, AC002350, AC005944, AC007327, AL110114, AL110502, AL023807, AC004478, AF030453, AC005498, AC007228, AC005536, AL049779, AC005879, AC006041, AL034350, AL035681, AC002984, AC006055, and AL031053.
HLMNL23	2768	675970	1 - 323	15 - 337	AW291682, and AW084373.
HLMNL55	2769	964739	1 - 268	15 - 282	
HLMNL57	2770	575900	1 - 132	15 - 146	
HLMNL64	2771	578627	1 - 296	15 - 310	AW237905, AI279417, AL137946, AW327852, H93152, N59744, AI284543, AI933111, AI915081, AI284092, T56025, T08386, H79586, AI798313, AA807579, R83068, AA584484, AI251944, AI890862, AI524022, AL121130, AI251034, AA878407, AA010973, AA302978, AI419337, AI280574, AI361090, AW128881, AI859906, AI358712, AI421950, AI884861, AA610255, AA365980, AI859438, AW410481, AL046416, AW026305, T07225, AA378474, AA834764, AW188791, AI254770, AI254508, AA372736, AI188049, AW090629, R49266, AA683091, AA350406, AA371410, R88803, AA215585, AW247389, AA047849, AA636102, N47855, AW132097, N52323, N33851, AI914713, AW265688, AI254798, AA343894, AC004099, AP000301, AF039906, AC005046, AL008718, AP000208, AC005188, AP000247, AJ246003, AC004841, AC012085, AP000045, AP000555, AE000658, AC004185, AF001548, AC004451, AL109827, Z98752, AC004491, AC003957, AP000509, AC004821, U85195, AP000692, AC006088, AL121653, D84394, AL096702, AL035072, AC006323, AC004777, AP000556, AF109907, Z82190, AC005409, AL023513, AC004770, Z98200, AL022396, AC004228, AC002045, AC004814, AC005317, AL121658, Z97056, AC002404, AC002326, AC004477, AL050343, AC006948, AL035461, AL031985, AC003692, AC004858, Z75887, AC000052, U91323, AC005280, AC006953, AC005288, AF015720, U80017, AC005588, AC018725, X51956, AL008583, Z84466, AC007993, AC007228, AC000085, AF196969, AC002039, AC004656, AD000092, AC004019, AC004999, AC005156, AL109963, AC005067, AC006511, AL020997, AL035086, AC002369, AC004999, AC005156, AL031281, AL049576, AL133246, AC004129, AC004796, U91318, AL009031, AL022238, AL021879, AP000553, AC002476, AC005484, AL023807, AC007376, AC002477, AL049780, AC003956, AC007450, AC007214, AC006441, AC005089, AC009516, AC006040, AF031076, AL034418, AC002551, AC005180, AC005924, AL117330, Z83826, AC004983, AC006958, AJ229041, AL050348, AL031594, Z93020, AC007157, AC005095, AC006040, AF031076, AL034418, AC002551, AC005180, AC006312,

					Accession Numbers
					AF217403, AL009051, AC007899, AC006557, AL080317, AL034423, AC009247, AF030453, AL024493, AC006059, AC005274, AC004623, AL031589, AC004844, AC002316, AC007934, AC004585, AC004706, AL080243, AC007066, AL021393, AP000130, AC003026, AL009172, AL008639, AC005972, AC009248, Z82215, AC005037, Z98949, AL049843, AC004583, AC006538, AC005772, AC006947, AL031659, AL035455, AC004383, AP000065, AC005213, AC004884, AF111168, AC004950, AL049871, AC008372, AC004097, AC005316, AP000696, AL049830, AL049793, AC005102, AL022327, U95740, AC005881, AC006362, AC004804, AC007406, AC006241, AL049759, AC007381, AC005233, AC007666, AC004629, AF003626, AL035681, AC002381, AC004386, AC002994, AC005726, AC004854, AC005291, AC006468, AC002425, AL035659, AC006000, AC005391, Z93023, AC005088, AC004859, AL022476, AC007308, AP000103, AC006160, AC012627, AC006277, AP000359, AC004967, Z83844, and AC004526.
HLMNM19	2772	668746	1 - 428	15 - 442	AC007240, AB000876, AC004181, Y14768, AP000505, AB000882, and AC006011.
HLMNM39	2773	577649	1 - 437	15 - 451	AA532744.
HLMNM44	2774	577106	1 - 187	15 - 201	
HLMNM61	2775	575889	1 - 342	15 - 356	R44592, AI284595, AA572975, AA017690, H71585, AA744272, AI611440, AA515224, AA743966, AI859469, AA243452, N25037, AA601270, AA807579, AI356264, AI040051, AW275674, AL033518, AC004787, AC003081, AC002395, AP000130, AF196779, AP000247, Z83840, AF130343, AC004150, AC001228, Z95115, AC006021, Z97876, AC005696, U95743, AL117694, AC004890, AC006484, AC006512, AL096791, U47924, AL034420, AC005899, AC003037, AL022238, AL109827, AL022316, AC006539, AL049757, AC002544, AC012083, AC002059, AC005874, AF134471, AL132712, AP000553, AC006023, AC009516, AC005353, AC006239, AC005081, AC004963, AL135745, AC012384, AF001548, AF106656, AF053356, U07563, AP000475, AC007666, AC004079, AC000026, AC007011, AC005233, AC005488, Z82203, AL133448, AC005370, AC005055, AL135783, AL035659, AC004859, AC020663, AC007114, AP000008, Z85986, L48038, AC007055, AL031681, AC005064, AC004955, U95742, AC004989, AC007156, AL096701, AC006146, AL031681, AC005064, AC007193, AC004816, AF001550, AF190465, AC003015, AC004983, AF059675, AL022320, AC004895, AC006362, AL021546, AC005330, AC004909, AC016025, AC006380, AC004258, AC005952, AC005015, AL008582, AC004583, AC005668, AC005399, AC005157, AP000501, AC002477, AC008123, Z81450, AC004643, AL050318, AC002070, AC005786, AC004885, AC004013, AL117352, AL022326, L29766, AC005841, AP000472, Z93783, AC006261, AC007216, AC005755, AC004408, AC004662, AC005225, AC005202, AC005971, AL031594, AB023054, AF111168, AC005484, AC005202, AC005291, AC006978, AC005180, AF165926, AP000031, AF064861, U91326, AC003689, AC004921, AC006014, AC007686, Z86090, AC006480, AL035451, AC008372, AC005562, Z93018, AC006042, AL021977.

HLMNN02	2776	920296	1 - 387	15 - 401	AA669135, AI659453, AA744875, AI418094, and N86865.
HLMNO52	2777	968377	1 - 539	15 - 553	AA115833.
HLMNQ35	2778	575906	1 - 339	15 - 353	
HLMNT27	2779	752366	1 - 290	15 - 304	
HLMNT62	2780	745733	1 - 240	15 - 254	
HLMNU73	2781	577693	1 - 443	15 - 457	
HLMNW94	2782	577157	1 - 382	15 - 396	AA077367, AA678404, AA631482, H11448, AI018726, AW075863, AI439045, AA627180, AW080061, H57324, AA767864, AA078225, AA809049, AI751049, AA613450, AI821659, AA643451, AA806116, F24531, AI369076, AI690497, AA558404, AA657910, AI732243, AA603432, AI903464, AW084152, C05882, AA838162, AA774006, AI537814, AA706845, AA429481, F31203, H69179, AA658018, AW409692, AA507526, AW069227, AA640252, AW074839, R33826, AI694178, AA683154, AA372881, AI251576, AI634187, AA720750, AA985145, AW117831, AA728890, AI306232, AA482786, AI457313, T98651, AI339302, AI583466, M60806, AC007225, AC005412, AC006050, AF042084, AC000050, AL031681, AL022336, AC009363, AF111167, AC008008, AL023575, Z82976, AC005245, AF031077, AC004152, AR060471, AC005295, AL031427, AC007205, AC004975, AC005839, AL079301, AL031602, AC004662, AC007227, AJ251973, AC005006, U65406, AC004856, AC009247, AL096791, AC005231, AC002040, Z67997, AC007421, AL022166, Z83820, AC006312, U29953, AC004596, AC004134, AC004983, AC008119, AC009399, AC005740, Z68226, AC004878, AL049697, AC002550, AC004143, AC003109, AL021368, AC005355, AJ006998, AL133241, AL121769, AC004019, AC006480, AP000967, AL031670, AC007676, AL021937, AC004962, AF200465, AC005399, AC008012, AC018725, AC006512, Z82097, AC004967, AL008734, AC005902, AC006597, AL009182, AC004016, AC004796, AC003964, AP000547, AL009181, AC005747, AC006581, AC007040, AC007312, Z93023, AC005615, AC002036, AL078581, AL022098, Z85986, AL031735, AC005670, AP000354, AC006014, AC005514, Z82198, AC005895, AB020860, AL031735, AC005089, AC006112, Z82172, AL132777, AL049874, Z85988, AC005071, AC006211, AL049631, AF002223, AC004447, AF170815, AC004007, AL049557, AC003687, AC007993, AC007968, AC004492, AC004030, AC006084, AC005838, AJ000219, D89927, AC002400, U02047, Z92542, AC004535, AL031588, AC003686, Z81450, AC004820, AC004652, AC006505, U91321, U95740, AB023049, AL033049, AL033547, AC006388, AC005202, AF121781, U73169, AC006213, AP000228, S83170, AF196969, AF031075, AC006160, AC004528, Z95116, AL035079, AL022316, M37468, AC005863, Y11107, AC004798, AL096755, AP000140, AC005488, AL078583, AC005924, AL031053, AL021878, U52112, AC006205, AC007435, Z69667, AC004589, AC002310, U63630, AF146367, Z99755, AC003104, AF124523, AC008928, AL049795, Z97056, AC004896, AL035045, AC006208, AC006441, AC003070, AP000088, AP000513, AL117344, AD000092, AF001552, U51022, AC007899, S77764, AP000694, AC004485, AF001549, AC005036, AC005621, AL049861, AC009248,

HLMNW96	2783	799745	1 - 303	15 - 317	AC005829, AC005694, AL121825, AC002978, Z82188, AL022318, AC007226, AF030876, Z82245, AC002492, U73647, AC007229, AC002389, AC004253, AC004099, AL049636, AL024498, AC005387, AL080242, Z81365, AC005793, AF193805, Z84469, AB015355, AL008582, AF050154, AF036405, AL133382, AL035249, AC005180, AP000403, and AC002549.
HLMNX15	2784	660316	1 - 283	15 - 297	AC005786.
HLMNX33	2785	702477	1 - 409	15 - 423	
HLMNX74	2786	765800	1 - 390	15 - 404	
HLNSF63	2787	509519	1 - 373	15 - 387	
HLNSG27	2788	684650	1 - 445	15 - 459	N62681, AW294240, H52686, AA084683, R00069, H73623, R97012, and AC004263.
HLTAA66	2789	503025	1 - 296	15 - 310	AA360344, and N43168.
HLTAA94	2790	503019	1 - 263	15 - 277	AA360440, and AA360442.
HLTAI12	2791	971523	1 - 880	15 - 894	AA902933, AA041224, AI078764, AA252233, AI373074, AW389244, AI141267, AI218278, H48161, AA235335, R76651, AI243996, AA360624, H49948, AA234675, R55221, AA011520, AA361876, AW021446, N63621, and R55222.
HLTAI56	2792	960750	1 - 305	15 - 319	AA360647, and AA361867.
HLTAL59	2793	508603	1 - 294	15 - 308	AA360498.
HLTAR67	2794	578467	1 - 325	15 - 339	AA360891.
HLTAR90	2795	524360	1 - 507	15 - 521	AA360930, T50676, F35684, AA302978, AA652868, AA878140, AA604550, AI912401, AA568204, AA570740, AA483606, AI143653, AI583142, AA846923, AA643770, AI362442, AA302661, AA297006, AW304699, AA502498, H84412, AI185394, AC002470, AC005529, AF001552, AC005324, AC005280, AF109907, AP000134, AC004966, Z98304, AC005520, AC008072, AC002492, AC007308, AL049569, AC005081, Y18000, AP001052, AC006530, AL133246, Z95152, AC004858, AC002480, AC005821, AC003080, AC007327, AC005516, AC003982, Z97053, U91326, Z99127, AL050312, AC004383, AC012384, AL022316, AL031321, U96629, AC005913, AL050348, AL031230, AP000208, AC007051, AF053356, AL035405, AF088219, AP000503, AF134726, AC004531, AC004796, AC002429, AC004692, AC006001, AL049776, AF196971, AF038458, AL049759, AC005730, AC005874, AF134471, AP000212, AF030453, AC004622, AC000353, AC006261, AL050318, AL022313, AC006111, AL021453, AL049538, Z98884, L44140, AC004263, AC005180, AL096791, AC008273, AC004253, Z98048, AL023803, AC007686, AL022320, AC007637, AF111168, AC006040, AF111169, AL139054, AC005839, AL031291, AC007993, AL031295, AC009516, AC005755, AC004805, AC005231, AC007225, AB001523, AC002558, AP000113, AC005089, AC005822, AL022165, AC005041, AC007204, AP000088, AC006539, AF196970, AC003101, AL121603, AL022311, AL035086, AC007151, AP000359, AC005360, AL096701, AL049872, AF047825, AL034351, AC005189, AL034549, AC004644, Z83822, AC002565, Z93017, AC004854,

Gene	ID				Accession Numbers
HLTAT22	2796	508592	1 - 314	15 - 328	AC004098, AP000228, AC006597, AC004668, AC020663, AC005488, AL031680, AC004876, AC009044, AC000134, AL031432, AL022067, AC005412, AC004542, AC004491, AC007664, AC002094, AC006026, AC007371, AC005086, AC004526, AC002072, AC002477, AC004851, AL049780, AP000140, AC002544, AC004859, AP000350, AC004382, AC006312, AC008115, AC005625, AC005914, AC006480, AC004964, AB020868, AC004882, AF024533, D87675, AF196779, AP000298, AC006064, AL049843, AL022336, Z83844, AL096678, AC002425, AC006088, AL031279, AF039906, AC002097, AC008044, AL021155, I34294, AC003110, AC003663, AL117694, AC007676, AF196969, AC004584, AC004584, AC006241, AC006388, AC005920, L78833, AC006101, Z98051, AC004797, AJ003147, AC002316, Z83826, AC004821, AC005082, AF030876, AL031685, AC005531, AC005844, AL034548, AL079342, AP000704, AC004150, AC007055, AC005736, AC007226, AC004752, AC006125, AC006305, AL022329, and AC006254.
HLTAT93	2797	575133	1 - 360	15 - 374	AA360946, and AA361888.
HLTAU67	2798	703103	1 - 337	15 - 351	AA360810.
HLTAW36	2799	536674	1 - 289	15 - 303	AA361018, AA361017, R58095, AA332883, R57856, and AF023244.
HLTAW69	2800	753707	1 - 585	15 - 599	AA361102, AI440178, AF039235, AA315994, AI916936, and AA358918.
HLTBL46	2801	508925	1 - 494	15 - 508	AA361122, and AI433714.
HLTBN29	2802	703295	1 - 452	15 - 466	AA361407.
HLTBO49	2803	839804	1 - 345	15 - 359	AA361696, AC003026, AL109613, AL121653, AL109758, and AC005378.
HLTBU04	2804	928005	1 - 430	15 - 444	AA361716, AA361734, C14792, C15837, C15309, C14683, C15809, and AC005670.
HLTBW51	2805	522881	1 - 340	15 - 354	AC004990.
HLTBX34	2806	856609	1 - 244	15 - 258	AA361956. AA362009, AA339932, AA507975, AI921692, AA230221, AA610255, AI274006, AI567831, AI445768, AI340858, AA586553, AI889648, AI613487, AI336206, T08386, AA774119, AA470490, AA362440, F16409, R79396, AA828613, AI434103, AW407007, AII124558, H01852, AII14645, AA358531, AA829693, AL038842, AA525238, AA112864, D25667, AA655037, AL134332, AA523718, AI744890, AI744381, R48980, AA661554, AW169469, AA157876, AI752977, AI554399, AA046906, AI446574, AA446931, AI636422, AA828840, R64110, AA729004, AI620354, AW338633, AI799683, AW070901, AA640661, AA657544, AL038841, AA551030, AI078143, AW028376, T16147, AA468289, AI732682, AA196287, AA010265, AA654464, AC004922, AC003092, AL031118, AC002310, AC006088, AC005602, AC005003, AC006449, AC005520, AL049562, Z82246, AC005920, Z82182, AC003688, AC004674, AC004242, AC006001, AC005971, Z82203, Z99716, AC005924, AC005822, AB014532, AC008115, AL121653, AF196779, AC006441, AC005696, AL023807, AC009248, AL031295, AC004491, AL022318, AC005391, AL024498, L44140, AC007066, AC007934, AC007229, AC003037, AL031848, AC005598, AC007201, Z98044, AC005747, AC005519, AC012627, AL031681, AL035587, AL035681, AC002400, AC006160, AC005399, AL139054, AL031577,

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HLTCL66	2807	417344	1 - 404	15 - 418	AA845560.
HLTCM12	2808	888630	1 - 346	15 - 360	AA361368, and AA361192.
HLTCQ51	2809	725845	1 - 660	15 - 674	H90265, N92020, T85748, AA487719, and H56560.
HLTCR55	2810	839556	1 - 576	15 - 590	W32922, and AI814997.
HLTCT75	2811	766511	1 - 337	15 - 351	AW451945, AA926743, AA361764, AI082182, AI653128, AI873281, AA608839, AI610135, AW367467, and AB033038.
HLTCU58	2812	625309	1 - 352	15 - 366	
HLTCV43	2813	715525	1 - 355	15 - 369	
HLTCV57	2814	535289	1 - 185	15 - 199	
HLTCV63	2815	574712	1 - 189	15 - 203	AW134673.
HLTCZ25	2816	574704	1 - 110	15 - 124	
HLTCZ37	2817	574705	1 - 413	15 - 427	
HLTDC32	2818	574699	1 - 274	15 - 288	
HLTDC80	2819	574698	1 - 353	15 - 367	

HLTDD44	2820	522698	1 - 146	15 - 160	AA362014, and AF053630.
HLTDD62	2821	571328	1 - 263	15 - 277	AL034343.
HLTDE78	2822	856603	1 - 293	15 - 307	
HLTDK54	2823	574714	1 - 302	15 - 316	AL096816.
HLTDK64	2824	772378	1 - 325	15 - 339	AA884484, and AC007068.
HLTDL71	2825	508932	1 - 242	15 - 256	AA361503, and Z96050.
HLTDT14	2826	973100	1 - 296	15 - 310	
HLTDY57	2827	934619	1 - 535	15 - 549	
HLTEA13	2828	971722	1 - 669	15 - 683	AF118078.
HLTEE40	2829	711453	1 - 221	15 - 235	AI904944, AA326452, AA135988, AA857812, AI799421, AA878407, N70449, AA831801, AI798041, AA714073, AA320105, AI419337, AI361090, AA302978, N23919, H93152, AA371410, C14330, AA577824, AA626829, AI421950, N75708, AW089550, AA832016, D51877, H67064, AA279385, AI114557, AA017690, AA326904, AW026305, AA719111, AA135811, C16358, AI914713, H43183, AA296604, AI270120, AW019964, AI886736, AI908508, AA092704, AW381198, AW381196, H79586, AA586433, H71738, AI054244, AI671077, AI431513, AA021139, AA381762, AA828867, R83068, AI609972, AL040430, AI580707, AW079809, AI583344, AI908525, AA828047, AI865776, AA558404, AA553570, AA338623, AI791718, AA862029, AA610255, AI192463, AW163763, AA364420, AA367788, AW089783, AA569597, AL041375, AA077776, AI797998, AA102737, AA324088, AI283938, AI185394, AI819391, AW390309, AW247389, AA854460, AI279417, AW265279, AA728861, AI538818, AA745543, AI889579, AL120976, AA385775, T60699, AA326330, AW265276, AA553900, AA565319, AA228778, AA152253, AI423018, AA834799, AI679413, AA487569, AI349130, AA608520, AA493789, AI445373, R67701, AI889705, T93109, AA937809, AA136477, AW002831, AA730488, AW008184, AA525331, AA502098, AI609574, AW340937, AA847413, AW300749, AA745628, AA365980, AA658934, AA378474, AA593471, AA493447, AL118925, AI750125, AI310670, AA074351, R93854, AI927393, AA593471, AP000350, AF038458, I34294, AL023807, U85195, AE000658, AF047825, AC005086, AP000704, AC006511, AL022721, AL031427, AC009247, AC002400, AC006011, AC005971, AC005484, AC005484, AC007384, AP000704, Z97181, AC004707, AL022320, Z98047, AC006344, AC004883, Z83845, AC002425, AC004905, AC018633, Z73359, AC006996, AC006449, AC004882, AL049843, AL049843, AC004263, Z93930, AL133382, AP000008, AL109952, AC005215, AL121653, AL034420, AL034420, AL139054, AL139054, AL049548, AC004881, D87675, AC002395, AC004966, AP000504, AL031230, AC005630, AC004797, AL050350, AC005015, Y15994, AL008635, Z82206, AC007774, AL031230, AC005630, AC004797, AL050350, AC005015, Y15994, AL008635, AC005081, AL049845, Z98051, Z82976, AC004884, AL035460, AC007055, AC005602, L47234, AL096703, AC007676, Z98051, Z82976, AC004884, AL035460, AC007055, AC005602, L47234, AL096703, AC005306, AC006132, AC007637, AL049776, AP000030, AC008928, AC005924, AL121603, AF129756, AL133246, AC007160, AC007160, AC002316, AC005476, AL109827, AC000075, AC004471,

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HLTEF24	2830	871203	1 - 135	15 - 149	AB023049, AC004880, AF111169, AL031666, AC002073, AC003688, AL121652, AP000212, AP000134, AC007878, AP000251, AF106656, AC006130, AC005519, AC004975, AC005071, AP000553, AC005664, AL132777, AF106656, AC003030, AC005690, AC007308, AC005759, AC004382, AC002543, AL034423, AP001138, Z94161, AF207550, AL031662, AC005345, AL022476, AL031311, AL022318, AC005274, AC002430, AC002128, AC002470, AC005777, AF024534, AC005221, AC005412, AC004025, AC000052, AC005037, AC005599, AC005261, AC007395, AC004913, AC005057, AC007880, AC005514, AC005291, AC004821, AC005914, AP001051, Z98036, AF030453, AC004526, AC007051, AC004812, AL031985, AL022313, AL132712, AC005372, AL023575, AC005091, AC005837, AL031678, AC002477, AF196779, AL133245, AC004785, AL135879, AL121790, AC007919, AC007546, AL035405, AL031393, AC007227, AC004753, Z98747, AL024498, AL049793, AC005696, AC006538, D28126, AP000065, AL031846, AC016025, AC002375, AC004900, AC004217, AC033525, AL021391, AC004605, AC004019, L78833, AL031228, AC005088, AC016027, AL031295, Z83844, AL031286, AC000379, AP000114, AL117693, Z93783, AF067844, AL016830, AC005067, AL031283, AC005730, Z98884, AL049745, AC007934, AD000091, AC002369, AL022302, AC007030, Z83856, AC006120, AC005695, AC006547, AC006480, AC006473, AC004000, AL031657, AF134726, AC005874, AF134471, AC005180, AL031685, AC006011, AP000432, AC005624, AC003966, U82828, AC005796, AC000025, AP000512, AC004895, U07562, AC006241, AC004130, AL049779, Z69890, AL034429, AL096701, AL050308, AF045555, AD000684, AC005606, AL135744, AC006367, AP000141, and AC007684.
HLTEI47	2831	720474	1 - 588	15 - 602	AA826368, and L78833.
HLTEI53	2832	723405	1 - 306	15 - 320	
HLTEK94	2833	793033	1 - 348	15 - 362	R63716, AA160481, AI191227, H40386, H48636, AA199616, R97634, AA226153, AA503119, T10560, AI266133, N67592, T92445, AI923480, AA701121, AA665021, H58178, AA564859, AI049707, AA569187, AI923140, AI340500, AA084337, AW157326, AI281754, AA586441, AA713534, N58586, AA831388, T40617, AW340821, AA650434, AA713762, AA713933, AI400213, AC005514, AC005971, AC003051, Z86090, AC006965, AC006241, AC002115, AL031447, AC004990, AC007327, AP000297, D49685, Z95152, AC005940, AC004474, AL023579, Z69921, L48473, Z98050, AL031714, AB029900, AL034401, Z49154, Z82184, AC000094, AC003968, AC000081, AL109854, AL023879, AL023694, Z83819, AC004041, AC005600, AC005250, AF015416, AC003099, AC012599, Z99297, AC005006, D87009, AC004748, AL034402, AC006254, AP000884, AC003998, AC005844, AC005969, AL022574, AC006318, AL035413, AC005245, AC005091, AC002460, AC004106, Z99716, AC007016, AC006285, AC006211, AC016025, AP000044, AP000112, Z60589, AD001502, AL021391, AL050031, AC004647, AC004076, AC003002, AL049552, AL109939, AC004638, AC007243,

HLTEL11	2834	967529	1 - 319	15 - 333	AC004400, Z69917, AB020858, AF130343, L42240, AC006026, D26067, L05367, AF151679, AP000294, D87015, Z81000, AF037338, AC005853, Z70688, AC000082, AC004257, AP001063, AL080238, AL049741, and AL022575.
HLTEL25	2835	508607	1 - 231	15 - 245	AA360683.
HLTEL59	2836	851867	1 - 687	15 - 701	AA664604, T77882, AI271985, AW084100, AA857812, AI421950, AC002997, AL022316, AC003037, AL049759, AL049776, AL049829, AC006538, Z98884, AF002223, AC006121, AC007193, AC007055, AC004878, AC005324, AC005512, AF196969, AC002544, AC004020, AC007182, AC005071, AC005971, AL133245, AC004148, U91326, AC007227, AC006449, AC005015, AC002316, AC005233, AL133371, D87675, AL080245, AL049872, AC005531, AC006064, Z68165, AC007066, Z83847, AC005913, AF030876, AC005399, AC003101, AC004491, AC006241, AC002310, AP000141, AC003029, AC007707, AC007216, AC005736, AC006111, AC009516, Z85986, AL096791, AF205588, AC005363, Z86090, AL050338, AL022320, AC005529, AC005057, AC016027, AC006013, AC005041, AF001552, AC004918, AC007308, AL031281, AC016830, AP000689, AC007075, AC005231, U91321, AL117337, AL049780, AL031311, AC004832, AC005237, AL008718, AB003151, AC003684, AC007226, AF111167, AC002425, AC004217, AC004644, AC002553, AL023575, AL022311, AC007151, AC005291, AC007546, AP000704, AC006464, AC004821, AC007686, AC002470, AC004084, AL022238, AL031283, AC004859, AL109801, AL035422, AC003006, AF207550, AC002492, AC006071, AL033521, AC006023, AC004858, Z99716, AC005300, AF129756, AL035587, AL135744, AL034402, AL080243, Z98752, Y14768, AL139054, AC005667, AP000557, AC000159, AC005261, AP000113, AC007676, AL096761, AC004675, AC005562, AF165926, L78833, Z97053, U07563, AP000512, AC005412, AC007041, AC004686, AC002301, AP000130, AC004883, AC007993, D28126, AL033392, AC004531, AC003663, AL008582, AC005874, AF134471, Z83838, AC004209, AC005102, AP000208, AC005740, AC004895, AF088219, AL021546, AC004587, Z97054, AL121825, AC004887, AL049569, AC005004, AC004656, AC004967, AC005940, AC002039, Z84466, AC002477, AL031005, AP000556, AC002059, Z95114, AL021920, AL021578, AC005696, AC004150, AC006014, AL121658, D86992, AC006141, and AP000045.
HLTEO88	2837	955228	1 - 321	15 - 335	AI218868, Z45382, AI273004, AA018678, and AA814210.
HLTES50	2838	958906	1 - 299	15 - 313	AC006323.
HLTES59	2839	739412	1 - 260	15 - 274	
HLTEX10	2840	968060	1 - 289	15 - 303	
HLTEX38	2841	573353	1 - 287	15 - 301	AA361279.
HLTEZ24	2842	572779	1 - 456	15 - 470	
HLTEZ33	2843	574634	1 - 344	15 - 358	
HLTFA05	2844	932221	1 - 539	15 - 553	

HLTFA34	2845	703403	1 - 202	15 - 216	AI431786.
HLTGF04	2846	927449	1 - 1580	15 - 1594	AA813267, AW341552, AA878516, AA612649, AI935832, H17239, AA213623, AA720884, AI621368, Z44756, N74953, T75192, and R37793.
HLTGF55	2847	669071	1 - 424	15 - 438	AA705418, AA682828, N64118, AI940034, AA987277, AA340035, AA484366, AI982809, R60108, T90092, AA918258, AW337710, AA643794, AI348199, H02927, T63790, AC005538, AP000512, AC002394, AC007151, AL021707, AF207550, AP000295, AL008718, Z85987, AC008044, AL035458, AP000044, AP000112, AB023051, AC004448, AC002563, AL133485, AC007216, AC005071, AC007226, AC005291, AC004967, AC007425, AC005529, AL022476, AC007845, U08988, AC003666, AC007057, AL031681, AL022721, AL035090, AC006544, AC004779, AC004216, AL031390, AC008008, AC005163, AL109984, AC005377, AC022517, AC002997, AL121825, AL132777, AC005921, and AC004228.
HLTGG25	2848	677696	1 - 296	15 - 310	AC005037.
HLTGG61	2849	741529	1 - 510	15 - 524	
HLTGM60	2850	973438	1 - 456	15 - 470	
HLTGP51	2851	725140	1 - 421	15 - 435	AC004757, AC005962, AC004821, AL031985, AC004491, AL133500, AC004149, AC004895, AC007637, AC004671, AC005768, AL021546, AC004131, AC003108, AC016027, AC016830, and AP001054.
HLTGP63	2852	744700	1 - 415	15 - 429	
HLTGS44	2853	716323	1 - 440	15 - 454	H90456, AA284708, AA805701, AI380487, AA203607, AI810648, AI829784, AI765051, AI126802, and AI367405.
HLTGV54	2854	729247	1 - 393	15 - 407	AW205342, AA394225, AA398138, AI189026, AA283901, AI088021, AW196580, and AA504369.
HLTGV64	2855	665647	1 - 399	15 - 413	AA992324.
HLTGV67	2856	747584	1 - 417	15 - 431	
HLTGX26	2857	681233	1 - 327	15 - 341	
HLTGY75	2858	767060	1 - 338	15 - 352	AC004921.
HLTHC34	2859	702078	1 - 411	15 - 425	AC008062.
HLTHH89	2860	974112	1 - 439	15 - 453	
HLTHI11	2861	966435	1 - 650	15 - 664	AI246061, AA324919, AI801563, AI054090, AA838192, AI539822, AA419225, N27874, AL048479, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, AA557911, AI673038, AI292275, Z97630, AC007688, AC007283, AL022311, AL034553, AL109628, AB003151, AL109758, AC005837, AC004955, AC005844, AP000689, AC003689, AC004531, AC003010, AC005808, AL020997, AC005531, AL008730, AC007263, AP000116, Z93020, AF001551, AL118516, AC003108, AP000049, AP000311, AC006115, AC007738, AC003663, AC006251, AC007051, AL049743, AC007934, AC002398, U95739, AC002301, AP000152, AC006449, AL109627, AC002091, AC002395, AC004234, U91321,

HLTHJ35	2862	1 - 529	15 - 543	AC007421, AC005014, AI021397, AL139054, U62631, AC007055, AC004834, AL080243, U73629, AC007363, AC005914, AL121658, AC004522, AC005152, AC007637, Z82215, AL049795, Z85986, AC005696, AL031848, AC005952, AC001231, Z85994, AC005274, AF068862, Z68870, AC007537, AC004612, AC007546, AC003007, AL049872, AC003002, AC004558, AL096791, AL022326, Y18000, AC005971, AC006213, AL023281, AD001527, AC006509, AC004967, AL050341, AL031686, AF207550, AC005295, Z82245, and AL035683.
HLTHJ68	2863	1 - 282	15 - 296	H48673, AA830499, and AA769512.
HLTHO15	2864	1 - 241	15 - 255	T55452, T55533, T64583, T86962, R17130, R43223, R43223, R69530, R88169, W16432, AA001405, AA010287, AA010286, AA039982, AA040629, AA262779, AA262859, AA429842, AA429866, AA280051, AA470454, AA535802, AA583001, AA602082, AA602149, AA568998, AA577257, AA738040, AA769367, AA814611, AA815126, AA826473, AA827081, AA878242, AA928604, AA932452, AA976602, F18808, AA654132, AA417049, AA417180, AA609614, AA724635, AA835419, AA838750, AA854117, AA854205, AA772546, AA868928, AA772706, AI002704, AI092675, AI092814, D19911, Z38531, Z42297, AA682392, AA699613, AI241962, AI249764, AI284418, AI368959, AI216755, AI399983, AI475899, AI566500, AI579914, AI125509, AI126523, AI128828, AI129502, AI143123, AI627758, AI168615, AI200776, AI620397, AI690783, AI701961, AI873590, AI805591, AI935907, AI951767, AW007590, AW009555, AI985824, AW024442, and AW082810.
HLTHO31	2865	1 - 251	15 - 265	AL049610.
HLTHO46	2866	1 - 291	15 - 305	
HLTHS75	2867	1 - 470	15 - 484	AW173354, AF049559, AF049553, and AW386843.
HLTHV83	2868	1 - 824	15 - 838	AA307492.
HLTIJ72	2869	1 - 493	15 - 507	
HLYAA21	2870	1 - 703	15 - 717	AA042852, AA044402, AI671077, AI801505, AA356376, AI828669, AA837771, AL042735, H54252, AA565232, AW272599, H43183, F31867, AA445908, AA904211, H53284, AA513884, AA662614, AI280266, AI355246, AA569715, AA552724, AW019964, AI246386, AI249688, AA374797, AA630245, AA584493, F35684, AI915081, AA058312, AW265688, AW302081, AI870453, AA493947, AA493789, AA586433, AL039309, AA284247, AA584484, W81372, W02749, AI612810, AA584800, AI580707, AI198718, AI923052, R93919, AI567391, AA811954, AI038304, AA728938, AI253987, AI282629, AI802804, AW051819, AL041352, AI754567, AI569100, AW192599, AA515351, AA558404, AI754105, F33037, T69571, AI609972, R86977, AA302982, AA558404, H65213, AI080307, AI061619, AA937809, AA678472, AA557790, AA665181, AA746911, AW403829, AI310464, Z98474, T62078, AW419389, AW303142, AW275432, AI587467, AI079734, AI912401, AA376520, AI190648, AA349937, T95676, AA659048, AL034420, AC004822, AC004760, AC005859, AF112441, AC005534, AC004651, AL078603, AL049570, AC005206, Z69922, AC007546, AC004167, AC005667,

HLYAA41	2871	909874	1 - 819	15 - 833	AL117344, Z49769, AC003690, AC002302, AC005291, AI021546, AI024498, AC002504, AC002128, AC007676, AC005256, AL121852, AL031315, I34294, AL034379, AC004494, U02052, AC007880, U02047, AC007566, AP000501, U95739, AF108459, AL008709, AC007993, AC002511, AC007312, AF130343, AC004033, AL031665, AC006011, AC002375, AC009044, AF196971, AC005057, AF053356, AC002550, AC005921, AC006061, AC002045, AC006479, AL110122, AP000193, AC008101, AL035072, AC008044, AP000050, AL109613, Z95114, AC004466, AL109983, AC005514, AC007193, AC008079, AL035410, U17576, AP000117, AC007136, AP000313, AF207550, AC004858, AC006132, X55448, U52112, Z99716, AC002390, AL021306, Z49235, Z82214, AL035415, AC005500, AC005277, AC003035, AC006062, AC002429, AC006449, AL049631, AL008707, AC004000, Z82190, AC002404, AL035400, AL035423, AL021920, AB018295, AL031311, AC002039, AC005902, M29929, AL020997, AC006125, AC003098, AC011331, AP001052, AF031078, AP000049, AP000116, AC000039, AC005193, AC005411, AC016831, AC004843, AL021937, AC004859, AL049712, AC005539, AC004743, AL049829, Z98742, AF030876, AC004999, AL022163, AC006057, AC005736, AC005740, AL031121, AC005746, AC005823, AL049557, AF006501, AL031293, AP000311, AC003967, AC000159, AL049834, AC004584, Z84813, AC004797, AC004073, AF109907, L44140, AP001063, AC006088, AL031732, AF030453, AC004099, AL109656, Z82248, Z94865, AC005088, AF107259, AP000239, AC005876, AP000952, AL109839, AC006277, AC003109, M87918, AD000684, AL050318, AC007225, U10087, AC005081, AC005516, AC005726, AC007376, AC008062, AC002107, AC006398, AL049795, AC006050, AC004475, AL031433, U96629, AL031848, AC004024, AF017104, Z86090, AL078638, AC009263, AC007731, AF075098, L31565, AL035495, AC003043, AC002496, AC005480, AL109963, AB003151, AP001053, AC002090, AL117352, AC011718, AL031594, AC008041, AC002476, AC004223, AL031431, AF155238, AL022316, AF095901, U91318, AC005747, AC002106, AL009183, AL109801, AL050331, Z84469, AC005531, Y14768, AC006126, AC004922, AC004695, AC004921, Z98052, AC002301, AC004817, AC005037, Z84466, Z82217, AL118503, AP000552, AC004224, AC005034, AC002369, AL135879, AL121790, AL050337, AC000115, L47234, AC004605, AC007773, AL133396, AC005335, and AC006515.
HLYAA44	2872	964841	1 - 362	15 - 376	AI074002, AW014573, AA326846, AI084046, AA070889, AW194509, H44725, AI241812, AI624543, W45039, AI273179, AI564245, AA903221, AI270448, AI923509, AI560536, AL045163, AI361701, AL039276, AI886440, AI476086, AI285732, AW085799, AW189802, A45787, E12888, AL122049, AL133607, AL133053, AL133049, AL133015, and AL133608.
HLYAB02	2873	920407	1 - 333	15 - 347	R02835.
HLYAB38	2874	861161	1 - 444	15 - 458	U81830, and AC007450.
HLYAC38	2875	668989	1 - 259	15 - 273	AI243319, AI288451, AI521658, AW301143, AW444808, AI417213, AI827213, AI925715, AI085752, AI913241, AA693938, AI869312, AI122654, AA937953, AI922008,

HLYAD10	2876	964845	1 - 583	15 - 597	AI394394, AI432336, AW451297, AI123244, AA736786, AI742610, AA522674, AA603325, AI425075, AI094469, N94395, AI742621, AI445367, AI420510, AI866676, AI963292, AA627433, AI356146, AA968590, AI872656, AI222629, AW167511, R69552, AI194056, AI803734, and Z38818.
HLYAE50	2877	576449	1 - 459	15 - 473	
HLYAF20	2878	668872	1 - 715	15 - 729	AA195902, D81936, AW373648, H72932, AW373647, AW373531, AW393531, AW373665, AA278187, and AA284401.
HLYAF28	2879	975007	1 - 633	15 - 647	Z99396, AW392670, AL134920, AW372827, U46341, AW363220, AW384394, AL119355, AL119319, AL119457, AL119497, AL119483, AL119324, AL119443, AL119484, AL119363, AL119391, U46349, AL119341, AL119335, AL043029, U46351, AL042984, AL119522, AI142137, AL134531, AI142131, AL042975, AL042433, U46350, U46347, AL119444, AL042973, AL119418, AL037205, U46346, AL038520, AL037526, AL119464, AL036190, AL036268, AL036767, AL037077, AL036774, AL037021, AL037027, AR060234, AR066494, A81671, AB026436, and AR054110.
HLYAG42	2880	691747	1 - 419	15 - 433	
HLYAH26	2881	855981	1 - 569	15 - 583	AW370369, AA825207, AI379831, AI224367, AW292092, AI832007, AI250843, AA825205, AI434322, AI250350, AW003249, AF110467, AF110466, AF137027, AF110465, AB025274, and AB018563.
HLYAK12	2882	970807	1 - 283	15 - 297	
HLYAL83	2883	780075	1 - 469	15 - 483	AI990837, AA630857, AA630888, AA907192, AI283022, AA318347, AI891038, AI821307, AA349881, AI951933, AW129165, AA487512, AI298557, AA776684, AA745570, AI749306, AA614647, AA492266, H96580, AA827080, W80853, AL135674, AI889426, AA302966, AI285709, AL023584, U92032, Z84489, Z77249, AC004821, AC002477, AC004520, Z93023, AL023807, AL109963, AC006001, AL035071, AL021807, AC005057, AL109628, AL031577, AL096701, AC004841, AL133355, AL117354, AC005901, AC006084, AC004999, AC004985, AL109984, AL024508, AC004472, AL133353, AL132641, AC005225, AL031666, AC004129, U62293, AL109758, AL021578, AL033525, AL050318, AL133448, AL022320, AL008715, AL033527, AP000694, U89337, AC004531, AC004067, AC004820, AC006312, AL096791, AL049871, U85195, AL035450, AC005365, AL109952, U80017, AE000658, AB014079, AL133382, D26141, AC004500, AC004527, AC005320, AP000510, AL022329, AC006026, AC004836, AL080317, AC005011, AL132987, AC005684, AF195658, L44140, AC007792, AL008718, Z98941, AF017104, AL117337, AL049745, AC004491, AC006241, AL133163, AF006501, AL034345, AL031587, AB023048, AL133245, AL109623, AC000379, AC004035, AC005362, AC007666, AC003026, AC004587, AC004217, AC004263, AC004196, AF205588, AC005393, AL022162, AL031277, AL034371, AC009330, AP000113, AP000045, AC005722, AC002365, AL031602, Z84484, AC006050, AC005200, AC012599, U95742, AC005089,

				AC007114, AL049709, AC004891, AL049712, AC006531, AL049830, AL049759, AC006139, U73167, U90094, AC007860, AC005385, AC004601, AL022721, AC006064, U91318, AC005874, AF134471, U63721, AF165124, AC007868, AC005220, AC006530, AC008040, AC002400, AL049570, Y14768, AR036572, Z84467, U91328, AP000131, AP000209, AC005231, AF111168, X14448, AC004938, AC007124, AC002126, AL050324, AJ246003, AC004905, AC000086, AC005764, AL109956, AC006004, AC005839, AC004817, AC005803, AC002425, AL049849, AC005971, AC005856, AL049780, AC007216, AC004647, AL109627, AC007880, AF129756, AC004858, U52111, AC002565, AL078584, AC007372, AL049837, AC005940, AL022163, AF111167, AL049553, AL080243, AC007386, AC004462, AL117258, L77570, AC004686, AP000555, AC007327, AL021917, AC003037, AC002369, AC007308, AC004815, AL117344, AL023284, AC005697, AJ003147, AC005670, AC005625, U96629, AC004914, AC004975, AL035249, AL031657, AL034417, AC003104, AC007429, AC007688, AC005363, U91323, and AC005082.
HLYAO31	2884	1-463	15-477	Z26982.
HLYAO67	2885	1-699	15-713	AI143897, AA028192, AW294571, and AC003963.
HLYAP10	2886	1-418	15-432	
HLYAP26	2887	1-462	15-476	
HLYAQ80	2888	1-615	15-629	AI049909, AI828669, AA167506, AI678676, AC005049, AL049830, Z99127, AL139054, AC007308, AC003982, AC005331, AC005764, AC007565, AC006581, AL021578, AC006064, AC007637, AF047825, AL031431, AC006950, AC016027, Z92542, AC016830, AC004024, AC005015, AF111167, AC002565, AC005391, AL117354, AC009516, AC004560, AC004000, AF038458, AC005138, U91321, AC004587, AC002984, AC005778, AC005081, and AF165926.
HLYAT56	2889	1-517	15-531	AI718516, AI763431, AI027846, AI631498, AI809845, AI971984, H87213, AI365352, AI383486, D25764, H87214, AI762280, and AC002112.
HLYAU29	2890	1-502	15-516	
HLYAV80	2891	1-691	15-705	AW449907, AW387328, AW387332, AW387333, AW387341, AC005332, and AC005562.
HLYAW35	2892	1-373	15-387	AC002480.
HLYAX61	2893	1-332	15-346	AI760371, AL117470, and AB023143.
HLYAX85	2894	1-379	15-393	AI216626, AI807710, and AL031393.
HLYAY62	2895	1-356	15-370	AI370263, AI472733, R98652, T52997, AC004882, AC005529, AC005821, AL024495, AC004216, AP000260, AC005291, and Z84467.
HLYAY65	2896	1-309	15-323	T47732.
HLYBA01	2897	1-464	15-478	
HLYBA42	2898	1-753	15-767	
HLYBA72	2899	1-462	15-476	
HLYBA85	2900	1-462	15-476	

HLYBA96	2901	575834	1 - 470	15 - 484	
HLYBB50	2902	708624	1 - 486	15 - 500	
HLYBB65	2903	866883	1 - 645	15 - 659	AI820992, AW105729, AA744993, AI003988, AA635433, AA687542, AI049630, AA015948, AI572680, AI358513, AA862029, AI283938, AI445699, H86399, AA515924, AI302350, H27788, AA302978, AA526658, H47736, AA526659, AI282479, AI061313, AA364082, AI049504, AW079667, AI591134, AA244181, AI678476, AA715351, AA728861, AI254779, AI590404, AI123214, AI702049, N55076, AI805699, AA862312, F17537, AA573000, AI751191, F23221, AA297789, AA846014, AA218684, AW265468, AA084320, AI143653, AW129188, AI049680, AA018258, AA650528, AL047349, R93233, AI446336, F29968, AA300049, AI002863, AA636077, AI268818, AL138262, AI799421, AI032411, H91062, AI679759, AA807704, H91704, AA278496, AW192930, F08866, AI520925, N78600, F36200, AA832124, AW192518, AA604149, AA668421, AA768179, AL121039, AI150934, AA147521, H91358, AI310343, AA342238, AI619994, AI174703, F31811, AA130696, AA342626, AW243945, AW157128, H91672, AW410844, AI040051, AA598740, AW148821, H59856, AA769481, AI065043, AI254267, AA010265, AC005632, AF049895, AF001549, AC005031, AP000555, AF069291, AC006538, AF111168, AE000658, AL031295, AF088219, U80017, AC000353, AC004083, AC001643, AL049835, AC005288, L47229, AC005971, AC004033, AC005500, AL096701, AL035681, U02057, AL109956, AC005666, L47227, AC011456, AC005682, AC005913, AL109798, Z98051, AC004663, AL022316, AP000501, AL049757, AC005730, AC002991, L47222, AC004151, AP000469, AL080317, AC004897, AC005409, AF064861, AC005231, AC005157, AC004882, AC005856, AC005529, AC006162, AL079295, AL080243, AC008018, AC004216, AL133289, AC006536, AC005828, AC003688, AL035587, AC006360, U85195, AL031347, AP000503, AR036572, U91328, AL035420, AC009516, AC007993, AC004985, Z82172, AC005722, AC005081, AC004966, X89398, AC005696, AC003665, AL049776, AC005332, AC007055, AC004253, AF045555, AC004000, AL021578, Z74739, AC000159, AC004056, Z96074, AP000010, AC005214, AC005244, AL035445, AL139054, Z97053, Z98941, AC005531, AP000030, AL023799, AL031659, AF053356, AL022721, AL080242, AC005003, AC005972, AL121603, AC005209, AC005215, AC004851, AP000152, AC005373, AL031685, AL023801, AC005924, AC004738, AL109627, AP000557, AL021155, AC005726, AC006277, AP000552, AC005365, M63796, AC006271, AL035461, AP000065, AC007766, AC004132, AL096703, AC003098, AF134726, E15652, AC005527, AL050321, AL121754, AF112441, AP000153, AC005188, Z82206, AC006385, L78810, AC007899, AC007746, AC003007, AP000011, AC001551, AC005484, E15648, AL132712, AL049843, AF038458, AP000556, AC008055, AC007919, AL121825, AL031007, AC007242, AB023048, AL022476, AC005368, AC006344, AF165926, AC006014, AC003043, AF019369, AC002544, AF109907, AC007845, AC005213, AB020866, AC004230, AC007637, AC005952, AC005057, AL049766, AC006064, AL049694, AL109853, AC006333, AC004686, AC005488, AF111169, Z93017, AL050140, AC005859,

					AC007172, Z95327, AC002477, U07561, AL031117, AL022330, Z93023, Z97056, AF001550, AC007051, AL033521, AL021808, AC007395, AC005701, AC006449, AC005089, AC008101, AC007731, AC006130, AC005071, AL022323, AL021707, M37549, AC005261, AL033392, AC004067, AL008720, AC005837, AC016025, AL035249, A84742, AL049743, AC005412, AL022723, AP000251, AL021453, E15653, AC005695, Z93241, X54156, U94788, AC002470, AC007363, AC005755, AP000512, AC002418, AJ011930, AC007151, AB001523, AF126403, AL121658, AC000039, AL050350, AC007421, AC003689, AC004150, Z98744, AC005377, and Z84488.
HLYBD46	2904	575865	1 - 358	15 - 372	AW089101, AA303007, AI290405, T49633, AA864603, AI382825, AW179306, AW179305, AW380254, AI042311, F17774, AA478355, AI468899, AA679936, AI732120, AI469968, AA680243, AA329995, AA829490, AA478297, AL119649, AC004894, AC004000, L78810, AL009181, AC005291, U51244, AC006160, AL031311, AL049759, AC009542, AC004492, AC004531, AL034379, AP000228, AL021453, AP000140, AP000088, AC004063, AF147304, AP000065, AC005800, AC004087, Z82206, AC005881, AC005740, AC002287, Z84474, Z83846, AB014078, AP000514, Z97989, AC005235, U37355, U37357, U37452, L07900, U73638, AC005783, AC006077, AC005377, AC004999, Z83826, AL031650, AC004838, AC008033, AL021978, AC007664, X95586, AF065396, AF129077, AC006388, AF038458, AL031282, AL031256, AC004167, AC003957, AL049692, AL020997, AL022316, AC007263, AC004882, AC009330, U82828, AC005274, AC007308, AF053356, AC005529, AB028964, AC004644, AC006473, AL080241, AL049757, AC004813, AL049745, Z98941, AL023805, AL133241, AL031228, AC006111, AL009183, AL109984, AL008729, AL117338, AC004004, AL022323, AC005833, AC005089, AC005041, AJ007973, AC007192, AP000223, AP001051, AL031905, AJ006997, AC005519, AC003071, AC004687, AC004491, AC006121, AL008629, Z97352, AC000087, AC005206, AC005667, AC008122, AC004983, AL024498, AC007226, AC005081, and U95090.
HLYBF47	2905	706517	1 - 417	15 - 431	AA873012, and AA470597.
HLYBF75	2906	828077	1 - 527	15 - 541	AA393103.
HLYBG18	2907	575872	1 - 465	15 - 479	
HLYBH08	2908	856445	1 - 467	15 - 481	AI076697, and AI076255.
HLYBH56	2909	733472	1 - 471	15 - 485	
HLYBH91	2910	576793	1 - 464	15 - 478	H85616, H86301, H86264, AW440976, AW236342, AI312149, AI358501, AA598997, AA593060, AW072587, AW419262, AI291124, AI291268, AI537030, N27353, AA084070, AW148792, AW340922, AI824562, AA443390, AW338869, AI648558, AI003734, AA347927, AA632868, AI499094, AA059235, AL138455, AA664535, AA323749, AW193609, AI133262, AI282832, AW380074, H40410, AI625570, AA984263, H86305, AA136004, AI884487, T47739, AI676218, AA347930, H42075, AA243959, AI653886, AI339440, AA837740, AL133862, AA610786, AI192631, AI628288, R47245, AA846935, AA346454, H02631, H21449, AL135405, AA437402,

HLYBI44	2911	728035	1 - 253	15 - 267	AW238768, AW085740, AL137954, AI610607, AI144330, AI572560, H64560, AA325699, AI469624, AL041733, Z94865, AC006350, AF001549, AP000508, AC004947, AL033521, Z92540, D84394, AL109984, AC005968, AC004210, AC004982, AC004098, AC007565, AL121653, AL031009, AC007344, AC005746, AC004637, AC000092, AC005317, AL023575, AC006121, AF111169, AP001049, AC005031, AL109798, AP001050, U80017, U91328, Z70281, AL023882, AC004205, AC002364, AC006012, X66401, AP000460, AC006480, Z70288, AF108083, AC003014, AB020867, AC007390, AC002994, AC005486, AC004035, AC005362, AC002350, AC008064, AC004702, AL021938, AF003627, AP000142, AP000090, AL031848, AR036572, AC006128, AL049845, AC006965, AL117352, Z82198, AC005531, AC005379, U89335, U89336, AC002045, AC005081, AL109656, AL031258, AP000358, AC004259, AC004600, AL031664, AC006195, AL035559, AP000343, AC004743, AC007324, AC003663, AC005288, AP001046, AC008079, AC009336, AC008124, AL049869, AC002288, AC005803, AC002082, AC005003, AL035106, AL022316, AC007308, AC006211, AC005755, Z92541, AB009666, Z98257, AC003965, AC004496, AF007544, AP000230, AP000144, Z86061, AL031177, AL109967, AC007214, AC006241, AC006111, AC007458, U47924, AL049562, AF227509, AL031662, AC004851, Z93021, AC006251, AL080285, AF227510, AC004999, AL031296, Z82205, AC005670, AP000556, AP000552, AL110505, AP000517, AC004253, AC004775, AF003626, AL022397, AC007026, AC005208, AC004562, AC004595, AC004963, AC005291, AF060568, U02048, AC006597, AC003695, AC005180, AC002091, AP000152, AC005231, AB023054, Z84490, AC005175, AP000252, AL035494, AF045555, AL022100, AP000212, AL035458, Z97054, AC007666, AL049873, AL031584, AC005324, AC005874, AF134471, AL096711, AC006030, AC004797, AC005944, AL008728, AL117351, AL022313, AC005837, AC007687, AL049696, AC005229, AP001068, AP000080, AC005694, U49740, Z69890, AC005550, AC004400, AC005565, AC006275, Z81308, AL031602, AC006456, AL021453, AL023799, AL049713, AC004713, AC004987, AL031666, AL021392, AC000003, AC007228, AC004972, AL031650, AL117344, AC006354, AL049712, AC007262, AC007535, AC016027, AC005815, AC007537, AC007182, AC016830, AC005873, AC004605, Z98750, and U51244.
HLYBJ10	2912	964752	1 - 464	15 - 478	
HLYBI42	2913	713845	1 - 559	15 - 573	AA830761.
HLYBL92	2914	856419	1 - 1064	15 - 1078	W87342, W87343, and AI797550.
HLYBM35	2915	625408	1 - 461	15 - 475	N72584, F31792, AI950359, and Z97055.
HLYBM75	2916	757084	1 - 387	15 - 401	AC007204.
HLYBN94	2917	670500	1 - 380	15 - 394	
HLYBO53	2918	721377	1 - 416	15 - 430	AC004056, AC007214, and AC007458.
HLYBR03	2919	924515	1 - 428	15 - 442	AC004227.

HLYBR41	2920	712389	1-631	15-645	
HLYBR83	2921	750318	1-481	15-495	AI769511, AI692550, AW384109, AW384104, AW384108, AW384071, AW384074, AW384068, AW384073, AW384075, Z42260, AA768582, AI681360, and AL022067.
HLYBS12	2922	970795	1-651	15-665	D78885.
HLYBT19	2923	668744	1-432	15-446	W87923.
HLYBT64	2924	527687	1-433	15-447	AI799856, and AA447275.
HLYBT69	2925	678175	1-452	15-466	
HLYBT84	2926	575828	1-45	15-59	
HLYBU28	2927	914702	1-418	15-432	H66883, W03665, and AC007068.
HLYBU52	2928	727213	1-463	15-477	
HLYBV42	2929	713837	1-298	15-312	AI094626, AW204786, AI935606, AW246712, AA336176, H92959, AI433978, AW194509, AL039276, AL045163, AI635331, AL045620, AL039421, AI923046, AI289992, and AW082113.
HLYBW12	2930	970796	1-423	15-437	
HLYBW35	2931	812692	1-634	15-648	R98218, AA570441, AI636734, AA324059, AW245354, AI446259, AA324559, AA720582, AA326603, AI358928, AA663074, AW162750, AA654482, T05834, AI929796, AL039930, AA593471, AA158549, H65679, N25304, AW078909, H94979, AW088557, AA457504, AA485343, AI049709, AI732720, AI734119, AW238712, AA364082, AI473995, AA484191, AA825827, AI064786, T08258, AW192373, AC002563, Z83826, U91323, AC004796, AC005726, AC005585, AC004832, AL031767, AC005057, AL035422, AL021279, AL021578, U78027, AL035420, AC004905, AP000355, AC003684, AF196779, AC007899, AF196972, AL021154, AC002551, AL049776, AC004821, AC005274, AC004953, AC007685, AC005484, AC007421, AL078581, AC005796, AC005562, Z93017, AC007050, U91318, AC007386, AC005940, AC003692, AJ003147, AP000356, AP000555, AC006538, AC006441, Z85996, AF053356, AL049694, AL050350, L11910, AC003043, AC004491, AL008718, AC006530, AC008064, AC007055, AL035413, AC005529, AC005088, AC005088, AL049983, AL049795, AL031774, AC010170, AC002425, AC005358, AC007011, AP000967, AC007388, AC005070, AC005696, AC002312, AC005900, AL050318, AL049709, AC002470, AL109798, AL031680, AC006271, AL050307, U91321, AP000359, AL031295, Z94056, AP000128, AP000206, AP000313, AP000501, AC007225, AL050341, AC004383, AP000104, AC008116, AL135744, AF129756, AC007546, AP000050, AL021155, AL132987, AP000466, AC006427, AP000113, AP000045, AC005667, AP000117, Z99716, AC005399, AP000245, AP001053, AL009181, AC006023, AP000689, AC005206, AC004526, AF200465, AL022165, U96629, AC006312, AL133163, AC009509, AC005531, AC005924, AC004477, AL049576, AC005180, AF107885, AL132642, AC007216, Z85986, AC005520, AC005839, AP000700, AC005971, Z97054, AL049843, AC003663, AL031447, AC005921, AC002369, AC007676, AF030453, AC007114, AL133312, AC006014, AC007695, AF104455, AC004985, AL031985, AC002525, AC008044, AC006101, AC002375, AC006285, Z92844, AC006211, AF017104, AC002091, AP000557, AC005225, AC007308,

	2932	721086	1 - 335	15 - 349	AL023575, AL109758, AC003957, AC007537, AC007542, AL022336, AC005046, AC006531, AL133244, U95738, Z95114, AP000509, Z84466, AC006126, AL034420, AC002128, AC004823, AL031282, AC002037, AC005488, AL096791, AP000704, AL139054, AC002996, AL022313, U85195, AC004686, AL121603, AC003982, AC005619, AL031390, AC020663, AC006111, AC003072, Z93023, Z83844, AC002039, AC011331, Z83838, AE000658, AC004882, AC005899, AC008079, U95739, AC004381, AL049569, AL035682, AC007151, AP000210, AP000132, AC002477, AP000694, AC002395, AC004531, AL031284, and AC004675.
HLYBX77	2932	721086	1 - 335	15 - 349	
HLYBX84	2933	754842	1 - 568	15 - 582	
HLYBZ17	2934	577479	1 - 373	15 - 387	AW130285, AI985694, AI979259, AI982610, AL022067, U08185, and AF084199.
HLYBZ23	2935	856430	1 - 398	15 - 412	
HLYBZ60	2936	682675	1 - 264	15 - 278	AC006064.
HLYBZ86	2937	856436	1 - 574	15 - 588	AL120025, AA432256, AI167405, R50986, AI768683, and AI802893.
HLYCA76	2938	770107	1 - 384	15 - 398	D30975, and AC005180.
HLYCA77	2939	677758	1 - 788	15 - 802	AI510842.
HLYCC39	2940	710843	1 - 564	15 - 578	H62775, H62835, AA39781, M77858, AL038842, AAS02532, AP000511, AL020995, AE000658, AL050318, AL109758, AB023050, AC007225, AF109907, AC009501, AC004211, AJ010770, AP000512, Z84486, AC002310, AC005585, AC003029, AC004491, AC004832, AL031255, AL031848, AC006285, AL049780, AC000353, AC006312, AL049569, AL033524, AC005484, AC007314, AB001523, AF165926, AC006071, AC005081, AC006011, AC002059, AC004223, AC002126, AL121653, AC007686, AC006942, AC005911, AC002312, AC005846, AP000689, L47334, AL080242, AL035422, AC006930, Z97056, AC005046, AL009181, AC002300, AB003151, AC004049, AC005527, AC008498, AL009172, AC006251, AL031427, AL031311, AC005907, AC005225, AC007690, AP000691, AC004234, AC004883, AC007546, AC005529, AC005755, AL133353, AC005157, AC005520, AC002369, AC002316, AC005015, AC007055, AP000299, AL133246, AL049697, AC004985, AL021391, AC007899, AC005261, AL035588, AC002115, AP000553, AC009516, AF053356, AC006271, AC005231, AC004801, AC004778, AC004013, AC006088, Z93241, AC004542, AL139054, AL011930, AL049835, AC005775, AC002314, AL022326, AL049709, AL049839, AC007540, AJ011930, AL049835, AC006077, AL133245, AC006211, AL133448, AC000404, AL050341, AC000025, AP000048, AL133163, AC005619, AC004228, and AL096766.
HLYCC65	2941	932727	1 - 493	15 - 507	AA171788, AW118642, AB029006, AJ246003, and AL121658.
HLYCF12	2942	908532	1 - 361	15 - 375	AI139999.
HLYCF46	2943	718930	1 - 526	15 - 540	
HLYCF70	2944	741417	1 - 399	15 - 413	
HLYCH10	2945	964354	1 - 370	15 - 384	

HLYCH15	2946	964840	1 - 363	15 - 377	R02835.
HLYCM68	2947	658540	1 - 432	15 - 446	AF070718.
HLYCM88	2948	732392	1 - 380	15 - 394	
HLYCN75	2949	761510	1 - 556	15 - 570	AA230096, and AA530904.
HLYCO31	2950	697787	1 - 312	15 - 326	AI370523, N23255, AA074026, N27657, R66922, AW085624, AA579437, AI114828, AA382130, AA190418, H64735, AA491864, AA488846, AI350460, AI765684, T24020, AI092694, AA405463, AI375472, AA443663, AA577770, AA174138, AI241173, M77904, AA338281, AA465689, N21546, AI127067, AI916406, AW103010, AA584123, AA436155, AA436281, AI587537, AA812684, AA583390, AI811345, AA906657, AI065029, AA715389, AI439045, AI278256, R70326, H75272, N53132, AA910215, AI052493, AA736485, AA461430, AA805014, AA205743, AL048023, T68597, N25819, AL031774, AL022171, AL133485, Z84484, AL022067, AC004021, AL049738, Z83855, AC005844, AL022312, AC004000, AC007676, Z93017, AC004583, M63420, AC005354, AC004264, AL035410, AC005088, AC005562, AC004231, Z84489, AL035413, AC000353, AL035420, AL137457, AC004861, AL021878, U73479, AC004560, AF107045, AC005387, AL031255, AP000068, AL031848, AC005544, AC007327, AC007842, AC006241, AC004223, AC004167, AL135744, U62293, U63721, AC005057, U46120, AC005253, Z82097, AL008635, AL009031, AC002326, AC004770, AC006017, AC004797, AP000502, AC005393, Z95329, AC005412, AP000501, AF196970, AC004382, AF141308, U93037, AC002116, AC007201, AC000086, X55448, AC006030, AC002369, AP000008, AC005049, AC006088, AP000704, AC005833, AC004585, AL031985, AL034419, AL034549, AL022316, AC002454, AC005988, AL022165, L11910, AC009263, L44140, Z49258, AP000350, AL118509, AP000510, Z84466, Z97054, AC004458, AL031681, AC004106, AP000564, L05367, AC004132, AC006084, AL109984, AC002477, Z98044, AC005225, U52112, AC005920, AL121652, AC005529, AP001053, AC006312, AD000813, AC004839, AC002420, AF045555, AC004876, AL031056, AC005081, Y10196, AC006043, AL035079, Z95116, AL133304, AL049745, Z49250, AF053356, and AL121655.
HLYCO66	2951	785990	1 - 295	15 - 309	AA918361, AI214209, AI820877, AI733217, AI346354, H65493, and AL031666.
HLYCO68	2952	729293	1 - 485	15 - 499	AW292970, AC004645, and AC006111.
HLYCP66	2953	706435	1 - 651	15 - 665	AA251713, AF080576, AA281037, T49826, T49825, and AC007041.
HLYCQ53	2954	728046	1 - 680	15 - 694	AL022098.
HLYCQ68	2955	752887	1 - 355	15 - 369	AI288307, AI186282, AA523891, C75540, AL037127, AI193168, AW407585, AA112924, AA458534, AA515631, AI613465, AA911520, AA001471, Z99943, AI031681, AC002364, AC005952, AC005670, AL033538, AC016027, AC016830, AC004955, Z83840, AL031848, AC005803, and AL050327.
HLYCR47	2956	850147	1 - 824	15 - 838	AW236220, T92688, and AA341978.
HLYCS15	2957	660006	1 - 371	15 - 385	
HLYCV49	2958	718840	1 - 294	15 - 308	

HLYCW04	2959	615021	1 - 336	15 - 350	
HLYCW13	2960	656827	1 - 366	15 - 380	
HLYCW20	2961	69541	1 - 355	15 - 369	
HLYCW62	2962	856443	1 - 1140	15 - 1154	AA720682, AI824562, F19258, AA654627, AI493615, AA503947, AL040913, AW340844, AA650244, AA077817, AA228329, AI679782, AI886176, AA729264, AA551509, AA342958, AI205126, AI357551, AI929531, AW103769, AW162049, AA610491, AW008317, AI053816, AI054246, AA743956, AI282336, AA904218, AI046898, AW301818, AI469172, AI307426, AA584082, AA745410, AL048616, AA515938, AW361583, F29989, AW071063, AA581342, AI802526, AI537955, AI446518, AI358229, AI807372, AI565245, AW406755, AI365988, AA340003, AW339687, AI635272, AI274692, AA228420, AI003172, AI922002, AI523897, AL041368, N25927, AA578154, AW157608, AL138242, AI214510, AI281808, AW104748, AW080134, AI281807, AA713815, W60516, AI111177, AI469878, AI446601, AI469624, AL138265, AA639250, AI282832, AW243960, AI633479, AI858451, AW029038, AI828710, AI394271, AA482711, C75026, AA503258, AA558857, AI471534, AI683577, AW236342, AI005388, N66026, AC004383, U62317, AF078904, AC004620, Z84721, AC003015, AC005206, AC005567, AC002375, Z15025, AF129756, AL109827, AL022328, AC004478, AC005778, AC004583, AC005099, AC006208, AC002395, Z99497, Z98747, AC001082, AC006057, AC020663, AC004890, AC004033, AL132826, AF037338, AL050341, AC007731, AC005500, AC004388, AC010722, AL008629, AC003035, AC010072, AC002310, AC004472, AC002073, AC005794, AL133448, AC009044, AF124730, AC004806, AC000118, AC000003, Z84480, AC004408, U70984, AF011889, L48472, AL031655, AL035690, AP000039, AC000085, AL031584, AC009946, AF015720, AC002543, AL080241, AC003982, AL021326, AC002378, AL023879, AC005257, AP000432, AC005746, AC005037, Z98754, AF064861, Y14768, AF047825, AP000495, AL109627, AC005838, AL021878, AC002350, AC005245, AC007686, AP000505, AI229041, Z98744, AC005356, AL109622, AC002312, AC005086, U91327, AC005211, AJ006996, AC007292, AC008984, AC004964, AC004622, AB020869, AL132712, AC005284, AC000004, Z95624, AL117354, AC005815, AC004066, AC002483, AC000025, AC007786, AF196971, AF165176, AL121846, AL023694, Z97635, AC009510, AC005184, AC007376, AC004526, AP000656, AC002565, U89387, Z84572, AL049745, AC009069, AL034406, AC006965, AC005046, AF109907, AC002432, U07000, AC006241, AL031591, AC006207, AC007387, AC005751, AC004638, AC004149, AC007221, Z69705, Z86061, Z76735, AC004540, AL096805, AL023755, Z97876, AL022395, AL033381, AL031427, AF042090, AC000052, AC007537, AL022163, AC003050, AL080276, AC004972, AC005940, AL031680, AL133494, Z73965, AC000392, AC005913, AF064857, AC004986, AL049776, AC004909, AP000561, AC004810, AC006556, AL109967, AC005071, AC004019, AC006213, AF064864, U75285, AC004592, AC006556, AP000023, AC005194, AC005303, AL117340, AF128846, AF128847, AC004099, AF128848, AB026188, AL096769, AL078472, AL049873,

HLYCY30	2963	1 - 364	15 - 378	AC005527, AF002991, AP000358, AC002984, AF045448, AC005159, and AP000359.
HLYCZ63	2964	1 - 430	15 - 444	AI760159, and AL133353.
HLYDB85	2965	1 - 343	15 - 357	AI792627, AI254439, AI581223, AW086361, AI349662, AI053903, AI862231, AI223748, AI792525, AW197508, AI348722, AI684349, AI053450, AI583532, AW182499, H65697, AI248494, W24698, AI140609, AI270092, AA767864, AW264786, AA233643, AI214028, AI266177, H95865, H72049, AW079694, AJ011930, AC005233, AC005972, AC002428, AL031733, AC002990, U95740, AC004662, AF196969, AC002378, AC010206, AP000356, AF117829, AP000252, AC005902, AP000212, AC006581, AC004841, Z85987, AP000031, AC005622, U91323, AC004999, Z95331, AC004534, AC005482, AP001067, AC004973, AL132708, AL021917, AC005659, AL133238, Z84469, AC007277, Z98941, AF067844, U91321, AC004087, Z98044, AL121754, AC002312, AC008928, AC006160, AC005658, AC004033, AC004025, AC004953, AL031985, AC004134, AC005211, AC004079, U89387, AF111167, AC000127, AL008732, Z98743, AC004796, AC005969, AC004144, AC005793, AC004935, AC008064, AL049709, AC004143, AC006011, AC004985, AL121577, AL049539, AC004084, AL022718, AL122020, AP000167, AC005488, AL132987, U95739, AL049843, AF001548, Z96074, AR036572, U91328, AC005088, AC004552, AC003078, AL022165, AL009181, AL133163, Z83822, AP000343, AC006430, AL031466, AL049835, AC007371, AC005105, AC006026, AL035407, AC004638, AL049872, AL034402, AC005280, AL022721, U82671, AC002522, AC000095, Z95113, Z95116, AC004992, AC006515, AL022316, Z93023, AC003010, Z84466, AC007707, AC004410, AC007057, AC006059, AC004927, AC003065, AC005033, AC007245, AL078463, AC007435, AC002492, and AL117375.
HLYDC02	2966	1 - 730	15 - 744	AI476323.
HLYDC77	2967	1 - 438	15 - 452	
HLYDD13	2968	1 - 547	15 - 561	
HLYDG06	2969	1 - 645	15 - 659	
HLYDG21	2970	1 - 538	15 - 552	AI306717, H81406, AL134167, AA496309, AA653823, AW408596, AA582746, AA837771, AI185394, AW237905, AI417586, AI186233, AA714011, AW084173, AI915081, AI973173, AI569700, F35684, AA368329, H40478, AA487226, AI520967, AA111870, AI678287, AA502207, AA581247, AA018231, AI680547, AI298079, F33037, AI300818, AI310992, AA434078, AI078409, T08386, AI187148, AW069227, AL135363, AI755057, AA658131, AA715962, AA297006, AA722505, AA445949, AI634187, AI697242, AA077637, AI457313, AA378489, AA297698, AI272192, AI340832, AA557911, AW440451, AA778962, AI565138, AW028170, AA715983, AI653783, AL042373, AA947369, AA937809, AA071045, S42653, AC006479, AL034419, M87912, AL049839, AC005014, AF165141, AL133246, AL022323, AC007421, AL133245, AC005846, AL031984, Z84470, AC007993, AL022328, AC004385, AC004622, AL034429, AL049795, AP000142, AP000089, AC004817, AC004694, AC007773,

Gene	SEQ ID	Clone	Range	Range	Accession Numbers
HLYDG27	2971	682910	1 - 568	15 - 582	AF001549, AC009247, AC007686, AC004230, AC006014, AP000472, AC005821, AC005081, U91326, AC004831, AC006236, AC002544, AF111167, AL035495, D87675, Z95152, AC012384, AC005488, AC005043, AC005104, AC005763, AC005015, AL023876, AB001523, AC004106, M55270, AC009946, AC004820, AC005519, AC002429, AC005924, Z84469, AC007386, AL050312, AC005911, AL031428, Z94801, AC004041, AL035683, AC004223, AF196779, AL035417, AC002094, AL031276, AP001065, AP000113, AP000045, AC007563, Z95115, Z97196, AC007436, AC006468, AC007156, AC004796, U07561, AL133035, AC005871, AC003963, AL031602, AL049766, AL031278, AL035458, AC005736, AF029308, AC007792, AL008707, Z98885, AC004025, AL133312, AC005288, AC007546, AP000313, AC005409, AP000501, AL031659, AL133312, AC005746, U62317, AC004076, AF196971, U95742, U91318, Z82195, AC006088, AC006285, Z82205, AL035414, AC004841, AP000050, AC007655, AC004874, Z95114, AL022394, AL050307, AL021579, AL031775, AL022316, AP000558, AC003669, AL109963, AC004129, AC005480, AL049872, AL049745, AC005189, AP000509, AL022326, AP000117, AL008734, AC004112, AC004383, AC004819, AF135187, AL135960, AJ131016, AL049776, AC005078, AL022476, AC005829, AD000813, AC004148, AP000022, AC006582, AC006430, AC007308, AC003684, Z98750, Z82176, AC003982, AL109623, AC002077, AC005722, AC004253, AC002314, AL031393, Z97054, AL049540, AF001552, AC005551, AL096701, AC005280, AC004797, AC005328, AL109798, AL034420, AC002059, U62292, AP000163, AC006062, AC005612, AC005585, Z98743, AL035587, AL117352, AF048729, AL080313, AL031680, AC002477, AC007216, AC005877, Z49236, AC004655, AL080317, AC006026, AC004765, AC002364, AL049830, AC005206, AC005206, AC007052, AC007298, AL132641, AF139813, Z98048, AP000694, AC005294, AL009172, AC005943, AF181897, AC002470, Z93784, AC005971, AL031686, AF064857, Z98304, AC005225, AL022312, AC004560, AC000120, AL031657, AL031283, AL022165, AB000931, AC006276, AL117354, AL031595, Z84466, AC005790, AC011311, Z83846, AC004228, Z82184, AL022318, AC005667, AL031589, AP001056, AL022333, AC007774, AC005513, AC007225, and AL031390.
HLYDG38	2972	597131	1 - 397	15 - 411	T83869.
HLYDG59	2973	871587	1 - 439	15 - 453	AA572675, AA579556, AI361854, T95591, T95067, and AA813887.
HLYDH27	2974	678266	1 - 703	15 - 717	AA252702.
HLYDH32	2975	699082	1 - 717	15 - 731	R99046.
HLYDH52	2976	726575	1 - 526	15 - 540	AI590217, AA343092, AA317170, AW157326, AW236342, AA593060, C05755, C06327, AI937850, AA574282, AI114846, AW419262, AW440976, AI923140, AI653905, AA330380, AW131249, AW390062, AA663306, F35659, AA947370, AA828984, AI291124, AA084070, AA244208, M86058, AI291268, AI537030, AA190911, AI312149, AL118947, AW406162,
HLYDJ08	2977	959055	1 - 513	15 - 527	

HLYDK74	2978	1 - 555	15 - 569	T10560, AA837351, AA348929, AA704391, AA640979, AW167267, Z92844, AC000353, AC005690, AL137191, AL021918, Z86062, AC005911, AC005998, AC005702, AC004672, AL033392, AC004168, AL133355, AC003966, AC002985, AC005197, AC005350, AP000352, AC005625, AC004592, AC006162, AP000462, AC005704, AL021546, AC005233, AL021453, AL035457, AL022160, AP000359, AL022394, AC007536, AC007283, AC004802, AL031589, X03273, AC005620, AL096701, Z84718, AC002072, AC006251, AF165926, AC005180, Z83840, AC005619, AC004941, AC004227, AL049875, AL049860, AF042090, AP000555, AP000042, AC004834, AC005829, AC002347, AP000431, AC009247, AC004066, Z99774, AC002526, AC004019, AC003007, AL031347, AC008115, AC006480, AL031291, AC006925, AC005208, AF015170, AL034582, AL008734, X66401, AP000513, AC002073, AP000689, AC004884, Z73900, AC005696, U97187, AC005328, AL022238, AC004972, AC005632, Z83841, AC005786, AC007688, Z83846, AC005837, AL022721, AL021937, AC007899, AC005565, and AC004525.
HLYDL24	2979	1 - 488	15 - 502	AW005554.
HLYDL60	2980	1 - 378	15 - 392	AA129914, AA128462, H94876, H72836, and AI818080.
HLYDL75	2981	1 - 555	15 - 569	D29642.
HLYDM51	2982	1 - 503	15 - 517	Z99396, AL036418, AL038837, AL037051, AL036725, AA631969, AW392670, AL039074, U46341, AL036924, AW372827, AL036858, AL119497, AL038509, AW384394, AL039564, AL039085, AL037094, AL039156, AL039108, AL119483, AW363220, AL039109, AL039128, AL036196, AL036190, AL119319, AL119355, AL119457, AL119443, AL037526, AL119324, AL036767, AL039659, AL037082, U46349, AL119484, AL119341, AL119363, AL037639, U46350, AL119522, AL038531, U46351, AL119341, AL119335, AL043029, AL119496, AL119396, AL039625, AL039648, AL045337, AL119444, AL119418, AL036238, AL037077, U46347, AL037085, AL042909, AL134920, AL039678, AL039629, AL134531, AL134538, AL039386, U46346, AL036733, AL042965, AL037205, AL119439, AL039423, AL036268, AL042984, AL042975, AL039150, AL038447, AL040992, AL042614, AL134528, AL042433, AL038520, AL042973, AL134533, AL037027, AL036998, AL119399, AL037615, AL038851, AI142134, U46345, AL043011, AL042551, AL119464, AL036191, AL042544, AL043019, AL043033, AL039410, AL042450, AL042542, AL037178, AL036679, AL036765, AL036719, AL043003, AL036774, AL037021, AL036836, AL036999, AL036158, AL036886, AR060234, AR066494, A81671, AR023813, AR064707, AR069079, AB026436, and AR054110.
HLYDM62	2983	1 - 547	15 - 561	AL022098, and AC005215.
HLYDO56	2984	1 - 220	15 - 234	
HLYDO75	2985	1 - 346	15 - 360	AA026296, AA086041, AA086123, and AA026297.
HLYDS11	2986	1 - 431	15 - 445	T97786, AA007533, AL031432, AC004520, and AL031737.
HLYDS66	2987	1 - 508	15 - 522	
HLYDS84	2988	1 - 533	15 - 547	AW080134, AA377730, AA358122, AI264743, AA913114, AI305766, N20066,

AI469968, N35896, AI075744, AI312309, AI648558, AA001418, AI888752, AW023672,
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AI679706, AI313166, T15948, R77905, C75026, AI341664, AI679132, AA626678, F37169,
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AA377621, F25203, AW131249, N25296, H00934, AI017415, AW272758, AA340960, AI005388,
AL135405, C19058, AA480762, AI814735, R98967, AI871722, F31204, AA328169, AI523897,
AI571512, AA558697, F36273, AI824562, AA569471, AA634227, AI493217, AA363989,
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AW074398, AI858451, F04987, AA077817, F37286, AA515128, AA780929, AI672857,
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HLYDS91	2989	775483	1 - 458	15 - 472	
HLYDT03	2990	920268	1 - 557	15 - 571	AA482994.
HLYDT68	2991	526245	1 - 320	15 - 334	
HLYDU08	2992	959074	1 - 370	15 - 384	
HLYDV62	2993	927872	1 - 583	15 - 597	AA326846, AI074002, AI084046, AA187426, and AW453048.
HLYDX93	2994	669792	1 - 548	15 - 562	
HLYDZ44	2995	716435	1 - 584	15 - 598	R14337, AA485189, and AB030181.
HLYEB56	2996	710819	1 - 316	15 - 330	AI983188.
HLYED52	2997	931992	1 - 350	15 - 364	
HLYED59	2998	856383	1 - 688	15 - 702	AI374993, N94590, W23797, AA585403, AI383156, and AC000353.
FLYED65	2999	747763	1 - 213	15 - 227	H72741.
HLYED77	3000	615312	1 - 419	15 - 433	
HLYED85	3001	784254	1 - 641	15 - 655	AA888665.
HLYEE34	3002	703906	1 - 554	15 - 568	
HLYEJ81	3003	488925	1 - 555	15 - 569	
HLYEL47	3004	666448	1 - 563	15 - 577	
HLYEN93	3005	682176	1 - 612	15 - 626	
HLYEQ40	3006	710986	1 - 297	15 - 311	
HLYEQ73	3007	760566	1 - 339	15 - 353	
HLYER38	3008	709181	1 - 386	15 - 400	
HLYET03	3009	923834	1 - 447	15 - 461	AA164189.
HLYFA27	3010	682763	1 - 525	15 - 539	AW405746, AI479114, AA845235, AI766637, and AI361762.
HLYFA58	3011	835409	1 - 393	15 - 407	AA504562.
HLYFC15	3012	923620	1 - 858	15 - 872	AW085626, W24802, AI754926, AA527633, R63460, AW028376, R23449, AA465198,
HLYFF10	3013	964109	1 - 563	15 - 577	AA338395, AI797998, R96319, Y18000, AC004000, AC005971, AC004882, AC005529,

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					Accession Numbers
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HLYFF64	3014	746339	1 - 476	15 - 490	AA858380, AW269071, AW271095, AW302832, AI284536, AI251563, AI252141, AI733946, AI733930, AI792695, AI792746, AI792842, AI252190, AI792856, AL080242, AC004876, AC004645, AC006111, AC000091, AC004169, AR036572, U91328, AC004771, AL031775, AB001523, Z99754, AC004652, AC006129, AC004509, AC004828, AL022329, Y07661, AD000684, and AC000026.
HLYFI64	3015	924558	1 - 529	15 - 543	AA287719, AI806591, and AI418161.
HLYFK47	3016	953988	1 - 423	15 - 437	AI061334, AW088202, AW162049, AW080134, AI570261, AW104748, AA482711, AL046409, AI357551, AI963720, AA714453, AI471481, AI341664, AI962050, AI344844, AW029038, AI049634, AI350211, AA581903, AI814735, N53150, AI133636, AW166815, AI567674, AA610491, AI291268, AW193432, AI291124, AW302013, AI688846, AI890923, AI375710, AI339850, AA713815, AW265009, AW193265, AI284640, AA559290, AI561255, AI669453, AI761471, AA826303, R94721, T07451, AI801600, C05755, AA501600, AI679782, AI368745, AA594145, AA649642, AI613280, AA161095, AA722048, AI561060, AI589230, AA652057, AI625244, AI860020, AI283911, AW062724, AL120674, AW440836, AI469003, AW438643, AA531372, C06458, AA584752, AI049722, AA828704, AI251002, AI537955, AA350859, AW276827, AA513141, AA623002, AA316905, AI669443, AI357288, AI610920, AA470969, AI370878, AI431303, AA513181, AA079831, AI446601, AI374809, AI345654, AA652764, AA302963, AA507547, AW079135, AI251436, AI364809, AA143516, AA806796, AA598824, AI198376, AI635818, T28550, AA340747, AI918421, AA551503, AA491814, AI917271, F04478, AI859742, AI890348, AA084070, AA582911, AI888518, AA843450, R98967, AW008212, AI654525, AI270117, AA847499, AI744995, AW238278, AA513293, AW273218, AI301700, R97934, AW070892, AI821271, AI619997, AA934680, AA632868, AI564185, AI799642, AI371070, AA719805, AA364224, AA831375, AA348929, AI801591,

1884

AW021583, T55213, AW088616, AW103981, AL042420, AI919029, N27329, AW265393, AI951863, AW117750, AA634146, AW300625, AA599920, AI151261, AA720702, AI634384, U51696, AA489775, AA837084, AI298710, AA832145, AA346458, AA947811, AW169537, AI418164, AA225230, AA664015, AA494097, AA634227, AI915293, W73048, AW131213, N29948, AI537030, AI921476, AI193007, AI828738, AI262909, AA577906, AA522942, AW247819, AI827234, AI376100, AI002834, AI921649, AA583955, AL038785, N43757, AW276435, AA644551, AA613345, AA364429, T06828, AA515051, AA486414, AI583594, AI708009, AA491831, AI610159, AI754955, AA970213, AI963095, AW303876, H93144, AA603156, AA584201, F25199, AA653618, AW102955, AA598997, AI439210, AI334443, AW327868, AI133164, AA468022, AA502866, R71615, AA599026, AI053672, AI339440, AI289067, AA259245, C06327, AI821356, F01314, C05986, AA213741, AA502155, AI471543, S75201, AF015160, U57007, AF015162, U18396, AF015153, AF077058, AF015155, U12584, D83989, X75335, X53550, X54180, S75337, X54177, U18392, M87919, AF015167, U57005, U57006, AF015166, U18393, U18391, U18394, X55925, U18390, I51997, U02532, U57008, X55932, U14695, U18395, S77605, U12582, X74558, X54175, U14703, A39972, U02507, X55926, AF015154, X55930, AL132712, X62354, U18387, AF015151, X55931, X54179, X55924, AF134726, AL078581, L35531, AP000503, AC007934, X54181, X54178, AL121694, U14705, S70707, AL132800, U67801, U14694, U50871, AL035450, X53549, AC006596, AC008249, AF015157, U14701, U12580, U14719, X76629, AP001065, AC002477, AC005523, S70699, U67827, AF015171, AL049712, L47228, U14718, AF015156, AF015149, U18400, Z83840, AC005808, AF038458, U14712, AL096776, AF015147, S70689, S70692, X55922, AL133241, AF045555, AP001068, AL023575, U66059, M37551, AL133500, AF015170, U14714, AC005619, AC005006, AF015165, AC002565, AC005081, U14713, AL031295, AL021154, U12583, AF140763, Z30979, U14716, AC007051, AC007919, AC005046, AL122003, AC007242, AJ011930, U14715, U14711, Z83856, AF060568, U47924, AF015158, M87916, Z22650, AL023882, AR000118, AL021391, U02531, AL133448, AF015163, AC004492, Z69706, AC004853, AC005535, AL121653, AJ003147, S70706, Z98051, U14698, AC000052, AC005228, AC007541, AF015168, AL121603, AL117330, Z86061, X88791, AC007225, U75931, AC001234, AC006486, AC005089, AC006249, U12581, U67829, AL135744, AC004814, AP000359, AC006455, U14717, AC004019, AP000114, AC004884, Z93241, AL034423, Z74739, AL121748, AC005913, U14706, AF015150, X55928, U18398, D87675, U57009, AC005763, AC007022, AF207550, AC003045, AL049757, AC002086, U67233, U57004, U14700, U18399, Z79422, U14689, U14702, X52851, AP001067, AC004491, AL049777, AL049836, M37547, AC002465, AL031681, M87923, AP000402, AL096701, S42659, AL109758, AD000684, AC007285, AC003035, AC006476, AL031258, AC006285, AL049776, U67211, Z94044, U67831, U67231, AL021878, AC006511, AP000517, AP000513, AL121757, AC006128, AL031670, AL078604, AP000090, AC006277, AC007191, AL031230, AC005866, AC003029, AC005295, AC004796,

HLYFO83	3017	863918	1 - 449	15 - 463	AL021707, AL035681, AL049552, AC006195, U67222, AC004890, AC002041, AC005541, AF064861, AC003957, AL021397, M19045, J03801, E01888, E02193, AL031286, U67229, and AL033376.
HLYFP23	3018	675373	1 - 515	15 - 529	AA594591.
HLYFR38	3019	709184	1 - 108	15 - 122	
HLYFU64	3020	936051	1 - 429	15 - 443	AI469555, Z33443, N76673, AA069889, AA281224, Z74620, AL031602, Z70227, AP000336, AL022577, AL035653, AP000215, AC004646, AB006903, AI239329, AL078477, AC004081, AF186194, Z95703, AC005726, AP000084, and AP000221.
HLYFX27	3021	682776	1 - 168	15 - 182	AC002458, AC005412, and AC007065.
HLYFX40	3022	710851	1 - 490	15 - 504	N76624, and AC005740.
HLYFX96	3023	916452	1 - 232	15 - 246	AI187732, and AA706963.
HLYFY33	3024	719251	1 - 300	15 - 314	AA352500, AI024945, AI493761, AA340178, AII92435, AA032024, AA452969, AA447052, AI038406, AA575836, AI143749, W38849, AA643304, AA811387, AA296364, AA829930, AI783713, AA568692, AI767267, W58767, AA443666, AI708679, AI761290, D82533, AA890233, W56507, AI312651, C05835, AI247870, AA639508, AA847787, AI338935, C05751, N80205, AA412478, AA828434, AA928571, AI741989, D83838, AI078010, AI191125, AI888718, AA814538, D83836, AI206832, AI241436, AA628649, AA676899, W52897, AI683306, H44229, AI932299, W56778, AA897470, AA452830, N93132, C06275, AA523873, R10897, AA659136, N69930, W38563, AA715017, U57692, and U57691.
HLYFY78	3025	660000	1 - 477	15 - 491	
HLYGA32	3026	698860	1 - 543	15 - 557	
HLYGA46	3027	952292	1 - 754	15 - 768	
HLYGC11	3028	966480	1 - 461	15 - 475	
HLYGC18	3029	665721	1 - 543	15 - 557	
HLYGC63	3030	744739	1 - 526	15 - 540	AA381269, AI859834, AA663966, AI754955, AI350211, AW193265, AI537077, AA490183, AI434695, AA515905, AA577906, AI151407, AI613280, AW276827, AA857486, AI754658, AL118991, AA483223, AI979005, AL048925, AI744995, AL041706, AA623002, AL038705, AW080811, AA594145, AA713891, AA469451, AA493708, H73230, AI860013, AI379719, T47936, AW050734, AW275719, AI433247, AL040382, H88666, AW276435, AI814735, AA503258, AW263864, AI859946, R17793, AA177061, AA652764, F36273, AA665021, AI635279, AI061313, AA226153, AA721524, AL119691, AA122223, AA493621, AA488746, N76766, AI933714, AI570943, AA846876, AA587604, AI745151, AA806796, AW103758, AI358501, AA502963, AW337454, AA613203, AI204304, AA599480, AI561060, AA767963, AA569471, AW129001, AW338086, AI623898, AA503154, AW408707, AA779783, AI471815, AI708444, AI865213, AI708009, AA598425, N53150, AI446474, AA633582, AW021583,

HLYGE28	3031	686173	1 - 565	15 - 579	AI654247, AW304805, AA765170, AI753488, AA136122, AW020992, AI755214, AI754567, AI623899, AI133164, AI598003, AI367497, AI610607, AA789192, AA535661, AC003007, AC005632, AC002310, AC007191, AC005562, U85195, AL022316, AC002470, AE000658, AC002316, AC004987, AC006285, AC004832, Z82214, AC007298, AC005839, AL022721, AC008115, AC000353, AC002400, U95742, AC005081, AL023803, AC005702, AC004890, AD000092, AC007216, Z93241, AC002429, AL049829, AC008372, AC005808, U47924, Z98051, AC005529, AC004859, AC006312, AC005940, AC005666, Z85986, AP000359, AL008718, AL050402, AC007510, AL096829, AC004933, AL023581, AC004760, AL049758, AC005046, AF001550, AL035450, AC004647, AL031311, AC004638, AF196779, AC003051, AL133500, AL079340, AL049776, AP000123, AP000055, AP000170, AC003071, Z83822, AL049709, AL022476, AL121748, AC005763, AL031284, AC003098, D87675, AC006581, AC006111, AC005527, AC006040, AL031587, AC004019, AC003664, Z6917, AL008730, AL049745, AC002301, AC006057, AL031432, AC002312, AL034549, AL023575, AC005229, AL080250, U80017, AL078463, AC004477, AL049869, AC016830, AC004041, AL133485, AC007666, AC009516, AL031650, AL022165, AL024498, AC007227, AC006011, AF141309, AL034384, AC007731, AP000459, AC004963, Z97054, AP000552, AC004699, AC003982, AB000882, AF207550, AC005500, AC007051, AJ003147, AC007387, AC005216, AL078581, AP000512, AL022302, AL022323, AL035683, AC005209, AC005740, AC007285, AF111168, Z83844, AC002430, AL049872, AC004685, AC005065, AC005291, AC007151, AC005944, AC020663, AL121934, AC007030, AC004953, AC005065, AC005291, AC007151, AC005844, AC002395, AC007384, AL135745, AC004525, AC005821, AC002303, AC002385, AL080243, AP000557, AP001051, AC007076, AL035608, AC000039, AC002041, AC005694, AC012085, AC004167, AC004884, AC005412, AL031719, AC003684, AC006030, AC000134, Z83845, AL035659, AC005755, AC007919, AL022313, AC004975, AC000052, AC006120, AC006128, AL034351, AL133245, AC007676, AL031286, AL031588, AL021154, AC006486, AC002549, AC004596, AC005015, U07562, AC004257, AL049779, AC007707, AP000513, AL031428, AC005089, AC007363, AL109865, AL139054, AL035451, AC004999, AP000252, AF029308, AC007225, AC016025, U66059, AC002350, AC004386, Z94056, AC006928, AL096710, AL035690, AL031662, Z75741, AC007877, AC005969, AL117330, AL035460, AL035420, AC006288, AC006006, AC007774, AC005399, AC006552, AL109985, AC008101, AC010168, AC007564, AL022328, AC006211, AF067844, AC005393, AC002425, AC007226, AF053356, AC004496, AC006153, AL035681, AC006050, AL136297, AC006130, AC004783, AC004526, AL009179, AC004010, AC005548, AC004381, AP000134, and AP000212.
HLYGH53	3032	871636	1 - 870	15 - 884	AA884313, AA825598, and U95737.
HLYGI23	3033	656698	1 - 245	15 - 259	AI032724, AW008354, and AC004953.
HLYGK24	3034	676907	1 - 267	15 - 281	AA829941, AA906288, and AI914939.

HLYGK77	3035	1 - 433	15 - 447	AL035410.
HLYGK82	3036	1 - 360	15 - 374	.
HLYGK96	3037	1 - 467	15 - 481	
HLYGM41	3038	1 - 387	15 - 401	AA513861.
HLYGM53	3039	1 - 629	15 - 643	AA173740.
HLYGP15	3040	1 - 539	15 - 553	
HLYGP26	3041	1 - 415	15 - 429	H56560, R06615, T85748, N92020, AA707219, H90265, and N63876.
HLYGP46	3042	1 - 982	15 - 996	AI004177, AW051735, AI923749, AI635200, AI201473, AI766831, AI352428, AA868576, AI380688, AI936241, AW393044, AW374354, AI318183, AW393061, AW374438, AI005539, AW364275, AA300050, AA909208, AI273127, AA814294, AA705616, AI698332, AI814050, AI273128, T27697, AA878157, N26436, AI224032, AI540961, AA291160, N35079, AW402662, C16472, C16435, H99331, AW408278, and D25278.
HLYGR39	3043	1 - 341	15 - 355	AC004777.
HLYGV02	3044	1 - 389	15 - 403	
HLYGV07	3045	1 - 489	15 - 503	
HLYGV66	3046	1 - 600	15 - 614	T87263, H94155, and AA055829.
HLYHB85	3047	1 - 548	15 - 562	
HLYHG09	3048	1 - 597	15 - 611	AA640056, H69347, H69346, AL021155, AL031588, and AL034418.
HLYHG18	3049	1 - 439	15 - 453	AA075210.
HLYHG45	3050	1 - 620	15 - 634	AA300319.
HLYHI75	3051	1 - 550	15 - 564	AW198107, AA917906, Z36759, H87252, AI521360, AI247128, AI207422, AA843450, AA601230, H47835, AL031657, AC000379, AC005971, AL022165, AC005037, AL049776, AL021391, AC007938, AC004602, Z98036, AI236694, AL034549, AL022238, AC006441, AD001527, AF047825, AF196969, AL022328, AL049843, AC002312, AL031587, AC003695, AC020663, AC006237, AP000563, AC005482, Z95115, AC005531, AC004882, AL080243, AP000211, AP000133, AP000509, AL021878, AC004797, AL049869, AL049594, Z83840, AL121653, AC006117, AC002091, Z93244, AL035086, AC005332, AP000126, AP000204, AL079342, AL109839, AC005300, AC005206, AC005839, AC003663, AL109963, AP000553, AC008372, AF134726, AC005031, AC006312, D84394, AC005519, AC005667, AC004087, AC007050, AC005899, AC004998, AC002477, AC005808, AC005089, AL031295, AC005183, AL109984, AC002418, AL022327, AC003035, AC005911, AC004099, AL049694, AL109758, AC004491, AC005015, AC004815, AC006515, AL096712, AC004386, AL021579, AC002470, AL096761, AC007240, AP000704, AC005017, AC006501, AC004228, AC005562, L31848, Z84476, AC012384, AL117330, AL031407, AL008723, AC009516, AL031985, AC005018, AL049552, AF196971, AL133163, AC005069, AC005529, AC004525, AL022311, and AC007114.

HLYHK02	3052	919199	15 - 539	AC004472.
HLYHL74	3053	765292	15 - 548	AA559182, AA573068, AA491823, AC005386, AP000692, AC004662, AC007386, AC007738, AL121653, AC002350, AC002404, AL022320, L05367, AL078581, AC004921, and AL096701.
HLYHM86	3054	784724	15 - 475	AA569573, and AA908998.
HLYHN47	3055	720019	15 - 584	H15547, F02465, and N73834.
HLYHN67	3056	920551	15 - 722	AW387103, R67677, AW404276, H03065, AW403805, AW387108, AI360165, AI891114, AI346739, AA115361, AW410383, AA476376, AI493775, AI373735, AW005762, AI683639, AA814726, AI885010, AI767165, N77394, N52435, AA548360, AA804529, AI335842, Z43872, H12922, F11250, and AF176915.
HLYHQ49	3057	659883	15 - 276	AA380617, and AC005041.
HLYHQ79	3058	751428	15 - 562	H57483, AI888261, R92056, and AA594742.
HMAAA35	3059	773472	15 - 521	T73196, AC007182, and Z64784.
HMAAE04	3060	385644	15 - 331	
HMAAE83	3061	745077	15 - 434	AW445199, AI291885, AI796788, AI291659, AI681688, AI586930, AI863432, and AI371323.
HMAAF10	3062	968199	15 - 427	D57175.
HMABJ56	3063	907640	15 - 415	AI523278.
HMABN34	3064	706264	15 - 473	AI865938, AA608751, AA639946, AI865807, AW068316, AA528500, AA365586, AA603530, AI814739, AI874201, AB023048, I34294, AC004659, AC005696, AL080243, AC004796, AC006153, U95742, Z94721, AC004821, Z98745, AC007216, AC005678, AF196779, Z98742, L78810, AC004851, AC007055, AL133448, Z85987, AC005081, AP000563, AC002128, AC004812, AC002470, AP000133, AC004491, AC006130, AL021154, AP000558, Z82195, AL109627, AL022323, AP000211, AL031311, AP000510, AC004150, AC005200, AL031662, AL034420, AC004859, AC003010, AP000555, AC005914, AF060568, AC000159, AL022322, AP000300, AC003010, AP000555, AC005914, AF060568, AC000159, AC005519, AC009516, M59250, AC006571, AC004522, AC004645, AC004019, D87011, Z93930, Y18000, AC005747, AC005015, L44140, AL136295, AC002544, AC005412, AC005067, AC003070, AC004834, AL021808, AL031737, Y14320, Z93241, AL121769, U29895, AC005358, AL049643, AP000030, and AC005940.
HMABQ71	3065	729831	15 - 514	
HMACS56	3066	733395	15 - 449	AW298595, AA465415, AA769410, AA465345, AA468904, and AA971248.
HMADC02	3067	920088	15 - 219	
HMADL77	3068	708074	15 - 157	
HMADM33	3069	970491	15 - 445	
HMADX31	3070	697994	15 - 262	AW452893, Z25062, AI215990, AI699527, AI147565, AI004649, AI291404, AI669727, AI820914, AA479756, AW005622, AA831051, F00452, AA825896, AA885489, AA725719, AA588432, AW071714, AA583305, AW451815, and AA969033.

HMADZ55	3071	939916	1 - 732	15 - 746	AW177706.
HMAEJ62	3072	744337	1 - 347	15 - 361	
HMAFD57	3073	734688	1 - 322	15 - 336	
HMAFF77	3074	856267	1 - 368	15 - 382	AA362198, W21176, H87432, and AA302842.
HMAFM35	3075	925049	1 - 427	15 - 441	
HMAFM55	3076	733286	1 - 417	15 - 431	
HMAFP30	3077	692598	1 - 500	15 - 514	AW392670, Z99396, AW384394, AW372827, AW363220, AL119497, AL119341, AL119443, AL119496, AL119319, AL119355, AL119457, AL119324, U46341, AL119483, AL119484, AL119363, AL119391, U46351, AL119335, AL119522, AL119396, AL119418, U46350, U46349, AL134902, AL042975, U46347, AL119444, U46346, AL042551, AL037205, AL134536, AL042450, AL042614, AL119439, AL042433, AL042984, AL119399, AL042965, AL119401, AL134920, U46345, AL134527, AL134525, AL134538, AL142131, AL043019, AL042970, AL119488, AL042896, AL042544, AL043029, AL042542, AL043003, AL119464, AL037027, AL036765, AC005065, A81671, AR060234, AR066494, AR054110, AB026436, and AR069079.
HMAFY42	3078	778521	1 - 409	15 - 423	AW402092, AA312190, AI907395, AA356734, AW403328, AA357475, AA352723, AW401989, AA352880, AI651812, AA347435, AA347660, AA360333, AA378937, AA347524, AW250682, T80305, N34180, AA191246, AF112209, AF052504, U72519, U70211, and AF131766.
HMAFZ61	3079	741754	1 - 90	15 - 104	
HMAGK69	3080	723186	1 - 535	15 - 549	
HMAHP62	3081	736039	1 - 321	15 - 335	
HMAHR04	3082	694042	1 - 98	15 - 112	
HMAHS30	3083	823422	1 - 147	15 - 161	AL035413.
HMAHX69	3084	735355	1 - 469	15 - 483	
HMAIC22	3085	947905	1 - 423	15 - 437	
HMAIP90	3086	681320	1 - 308	15 - 322	
HMAIU62	3087	856278	1 - 539	15 - 553	
HMAJY01	3088	916259	1 - 459	15 - 473	AA779075, AL037910, AA837351, AL134330, AA993198, AI084012, AW403720, AA300052, AA173970, AL045709, AA393847, AA779783, AA811580, R59660, AA262752, AA665257, AI570943, AI978712, AI377413, AI814721, AA059415, AW270619, AA565826, AA664235, AI903081, AA159516, AA252641, AC006965, AC003687, AC005741, AL049745, AC005738, AF118808, AC004534, AC004841, AF121782, AL035684, AL034402, AF124523, AL031285, AL080317, AL132987, AP000961, AC002351, AL050338, AL133246, AL008709, AE000660, AL035089, AL020990, AL049838, AC002385, AC005610, Z99495, and AC006368.
HMAKA11	3089	801917	1 - 1707	15 - 1721	
HMAKF82	3090	856311	1 - 603	15 - 617	
HMALL66	3091	956195	1 - 496	15 - 510	AI826091, AA580077, AI359456, AI362274, AI361512, AA861038, AA961076, AW008827,

HMAMA69	3092	975074	1 - 431	15 - 445	AI658621, AI368484, and AC000392.
HMAME11	3093	955999	1 - 2660	15 - 2674	AL049648. AA780265, AI921096, AI766065, W63619, AA399960, AI912594, AW204723, AW300114, AW182579, AI681695, AI634542, AW300127, AW134790, AI672402, AI632484, AI991208, AI921108, AW273778, AI672557, AA829864, AI887668, AA237046, AI498167, AW274451, AI703437, AI870323, AW173366, AI368759, AA455660, AI333733, AA143030, H18069, W73117, AI870510, AW006266, AA972594, AI659606, AI862877, AA167089, AA029847, AA54871, AA602625, W44772, N24939, AA845904, AA669693, AI268864, AA281067, AI130979, AW003963, AA446051, AW189836, AI971599, AI273393, AI392880, AW197453, AI278947, AI351669, N62971, AI308071, AI936847, H98724, AA836448, AI440191, AI989522, AA011285, AI589281, AA293010, AA827358, AI339270, AA459005, AA455715, AI860721, AI302146, AA524204, AA505574, AI364520, AI090733, N66064, H97021, AA135737, AA43293, H72683, N24292, AW190461, AI027367, W93402, AI912153, AA962416, AA719182, AI367284, AW205556, AA911230, AA029982, AA399292, R11703, D25619, H97049, AI699130, N23812, AA952896, N36243, AI168162, AA723573, AA476536, AI214579, AA594325, AI694799, AA975509, AA150983, AII22611, N35346, R61136, AA459224, AA024419, AA044981, AA927127, AA976353, AI631939, AW023248, AA806738, H25442, AI572175, AA858127, AA278458, AA034991, W37092, AI370017, AA024420, D82669, H25487, T33969, T83721, N22469, AI473134, AW150562, T16805, AI383106, R12119, T36116, AII88357, AA988155, H17376, T39763, AI823318, T39771, T39737, AI341595, AA906253, AA715091, N99439, AI611116, N44714, AA281192, T39788, T39778, AA203543, N72004, AA383416, F04896, H10770, Z40617, AA857399, T98192, T98193, AI918795, AW274013, AA907736, AA906256, Z43451, T39764, T17433, AW089288, AI696191, AI692608, AI638777, R47794, AA459004, AA700917, AW378486, AI873655, T39745, AW057906, AA301109, AI368524, AI873204, R40787, W93614, W61128, AI471097, AI935327, AA927938, AA904804, AA010846, N95657, AA034960, H10769, AA091950, N79875, N56479, AW138315, R50427, AA236848, AA724749, AA383283, AI001837, AA365102, AA093695, AI765014, AA471159, AI686101, H72682, AW362319, F07569, and AI091461.
HMCAF27	3094	959557	1 - 553	15 - 567	AI817881, AW271350, AI452395, AI698804, and AL022316.
HMCAJ60	3095	586435	1 - 288	15 - 302	AA179308, AA122166, AA166791, Z25347, N41968, AI087936, AA505715, AA037848, AW351931, AA748014, AA740754, AI193280, AA452481, AA610857, and D79986.
HMCAO01	3096	916843	1 - 606	15 - 620	
HMCAU25	3097	856241	1 - 255	15 - 269	
HMCAW49	3098	974119	1 - 555	15 - 569	
HMCAZ67	3099	751804	1 - 574	15 - 588	R95734, AA702224, AA557260, AW304938, AI761850, and AJ223183.
HMCBI05	3100	932146	1 - 348	15 - 362	
HMCCA45	3101	722027	1 - 430	15 - 444	

HMCCB30	3102	692830	1 - 381	15 - 395	AC004682.
HMCCB62	3103	747136	1 - 229	15 - 243	AW135935, AW138952, AW137754, AW135962, AW138823, AW138870, AW136428, AW207624, AW139869, AW341135, AI458161, AW341795, AI936474, AI702804, AI298857, AI205685, AI692679, AW340949, AI860249, AI223102, AW341157, AI268060, AI680872, AI692602, AI458917, AI819255, AA724456, AI797139, AI378332, AI457094, AI168190, AI797065, AI689805, AW070376, AW419338, AW117584, AI458888, AA932423, AI150020, AA062985, and AC005829.
HMCCB78	3104	773660	1 - 290	15 - 304	
HMCDB42	3105	713051	1 - 474	15 - 488	AW298470, AW082724, AI304868, AI348442, N20641, AI018013, AA776579, AW293387, AI124624, AW298354, AA804512, AA737473, AI280305, AA923469, R50142, AA837153, AA921954, AA827804, and AA748461.
HMCDM32	3106	699249	1 - 432	15 - 446	AA488432, R77507, AA001526, AA102031, AA443065, W33067, F18394, AW243706, T51965, AA461430, AA774222, AI049662, AA629597, AA724230, R44592, AI363798, AI561335, AA630030, AA659856, AI670124, AA330772, N64437, R79496, AL119025, AA364193, AA642265, T65735, AA195798, AA196052, R78564, AA481363, AA345330, AW270284, AA481375, AA669387, T29360, AA365248, AA825793, M78150, AA620390, T60791, AI874201, AA484148, AI758582, AA747472, AA747620, H95528, AI284583, AA528516, AI349874, AA457771, H39713, H44095, AW341892, AI446464, AI469687, AA312878, AA347820, R81240, H14935, AA745560, AA935789, T71030, AA984387, AA244415, AA828696, AA745431, AA679493, AI468134, AA226364, AA834820, H85382, R13151, AI801600, AI174535, AI345522, AA658235, C18648, AA573695, AI061089, M77950, AA720583, AA551575, H04821, AI801591, AA135119, AI344844, AI619997, AA641103, AW029526, H14931, T71998, AA669522. AI298977, AI225141, AA513939, AA630834, R54885, AW265009, AI439360, N55273, AI499134, AA829405, T15977, R66997, AI921188, AA593533, AA788883, W45336, AI499503, AA192695, H26689, AA115729, AA177063, AA758934, AI473684, AW117750, AI379719, AI565581, AA242863, AW327868, AA533038, AI613261, AL118911, AA533450, AI871992, T91024, AI792108, H95267, AL048626, AA533092, AI310138, AA196020, AA164251, AI340453, W37913, AI064864, AL041382, AA192337, AI557323, AA034177, N87410, AA525898, H73070, AC003663, AC007358, AR051521, AC006511, AC008079, Z85986, AL133485, AC006210, AC004226, AC004859, AC007919, AC004194, AL033531, AC005255, AL109984, AP000338, AP000216, AC008101, AL031774, U02050, AC004638, Z85987, U90297, AC010349, AC016830, AF128525, AC004383, AF124523, AF147341, D31757, AC005250, Z93930, AF064863, AF026807, L16016, U72790, Z84466, AR060394, X64467, Z99754, D16583, AC005759, AP001056, AC005564, AC005542, AP000698, AC007766, AL021977, AL008716, AL080245, AL022311, AC005591, AC007401, AL117325, AL049758, AC004776, AC004001, AL035073, AL031905, AP000692, AC004891, Z83841, AC004941, AC005208, AC007243, AC004468, AC002472, AB020868, AC005548, AC007664, AL031651, AC005544, AC008012, AL021395,

HMCDN22	3107	895981	1 - 615	15 - 629	AL121748, AP000501, AF196779, AC005209, AC004782, AC008055, AC006530, U95740, AC005771, AC007151, AL049872, AL022152, AC009275, AC003071, AP000959, AC006277, AC005529, AC006016, L81692, AC004000, Z68277, Z82171, Z75896, AC005620, AC005614, Z82217, AC005755, AC005994, AP000152, AP000010, AL035659, AC005091, AL050331, AC006014, AC002402, AL035667, AL022324, Z97987, AC002091, AC005488, AC006946, AC004036, AP001137, AC005660, AL078580, AC010072, AL080242, AL078581, AL136520, AL031257, AP000359, AJ006995, U02054, AC001555, AF032985, Z49235, AC005327, AL021397, U62293, U63721, AC003026, Z83847, Z98750, AC004752, AC005210, AC005057, AC004933, Z83846, AC005341, AL049691, AC002038, AC000379, AC005007, AC003962, Z31005, AC006121, AC006388, Z99128, AC002461, AF050154, AC007540, AL008631, X55922, AC002485, AC007842, AC008372, AC004652, AC004543, Z99496, AC005154, AC004458, D14813, AL135744, U34879, AL034349, AL035665, Z99495, AC005829, AC005019, and AC002106.
		974588	1 - 483	15 - 497	AW264938, AA039677, AI554747, AI696900, AL042720, AL045791, AL040219, AA614566, AA459899, AI697044, AA077186, AI201384, AA040234, AA622885, T62577, AI076623, AI247893, AA325208, AA074393, AI858610, AA280172, R10147, AA308856, AI267803, AI870586, AL046240, AA757892, AL048960, AA249116, AI267805, AA906248, AA077724, AW372467, AA999887, H19634, AI203658, AA910849, AA906244, H19636, AI129946, AI949914, AI289213, AI656920, AA996066, AW197305, AA078294, AA345106, AL042573, R10553, N22657, AA127979, AC006014, AC005488, AJ007798, AL137492, AC005071, AF030453, and AC005088.
HMCDT92	3108	760034	1 - 99	15 - 113	AF092170, AF094827, AF053316, AF073481, and AF153472.
HMCFA71	3109	963794	1 - 508	15 - 522	AC005799.
HMCFB22	3110	725425	1 - 414	15 - 428	AL117694.
HMCFR51	3111	674074	1 - 736	15 - 750	AI916866.
HMCFW22	3112	697533	1 - 373	15 - 387	AI093606, R75654, AI223427, AI587676, AL133404, U82523, AC004056, U35039, AP000029, AF069679, AF100956, AF055453, U16790, AF140707, AC007585, and AF140708.
HMCGG31	3113	708050	1 - 149	15 - 163	AA522990, and AA523266.
HMCGJ36	3114	690288	1 - 347	15 - 361	AL078593.
HMCGN29	3115	846134	1 - 339	15 - 353	R61207, AA595242, AA885902, AA664829, AI128992, AA191001, AA236451, AA568605, N20562, N21453, AA205313, AW299827, AI421414, AI092515, AI359411, AI678568, AA412120, AI017854, AI080378, AI829849, AI457327, AI278017, AI720720, AW079295, AA604404, AI161131, AW025239, AW004793, N38928, AI202803, AI735406, AI199103, AI937534, R26385, AA931424, R65602, AI341364, N52379, AI206697, AA393099, H60854, H69040, H75378, AI254208, AI033280, AI928767, AA917535, H48236, H92760, H75372, H53825, AI978889, and H48327.
HMCGW54	3116				

HMCGY77	3117	753133	1 - 389	15 - 403	
HMCHA04	3118	927287	1 - 451	15 - 465	AW352117, AW177440, AW375405, AW377671, AW178893, AW360811, AI535959, AW366296, AW360844, T03269, AW360817, AW179332, C14389, AW179328, T48593, AW375406, D80439, AW378534, D58283, AW377672, AW179023, AW178905, D59859, D80022, C14331, D80166, AW177731, D80212, D80195, D80193, D59927, D59467, D51423, D59619, D80247, AW378528, D80210, AW178906, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80045, D80038, AW179019, D80043, D59787, D80227, D59502, AA305409, AW378532, AW360834, AW177501, AW177511, AW377676, D81030, D81026, D80269, C14014, D80268, D80366, D80196, D80188, D51022, D80248, D50979, D80219, AW378533, D80522, D50995, D80302, C06015, D51200, AA305578, AW179020, C15076, D59610, D51060, AW352171, C14429, D57483, D51103, AW352170, D59889, D80133, AW178907, AW177733, AW178908, AW179024, D80024, AA514186, AA514188, D80157, AW178911, D80378, D45260, AW177329, AW177505, AW177456, AW178775, AW367950, D80241, AW178909, AW176467, AW179004, D80251, AW178980, AW178986, AW178914, AW178774, AW178754, AW179018, AW352158, D80390, D80314, AA285331, C03092, C75259, AW378539, AW378543, AW378525, AW378540, AW352163, C05695, AI525925, AW178781, F13647, AW360855, AI525913, AI525917, AA514184, AI557774, Y17187, Y17188, A94995, Y12724, AR066487, I50126, I50132, I50128, I50133, AR066488, AR016514, A45456, A67220, D50010, D89785, A62300, A62298, Y09669, AB028859, AR060138, A84916, A82595, A78862, D34614, D26022, AR060385, A30438, AJ132110, AR018138, A26615, AR052274, A43192, AR008278, X67155, A43190, AR038669, AF058696, A25909, A63261, D88547, X82626, AR008443, AB002449, D13509, A70867, AR062872, AB019242, AR016691, AR016690, U46128, AR025207, A64136, A68321, AR060133, AR008408, AR032065, and X68127.
HMCHE16	3119	856332	1 - 403	15 - 417	AA380953, and AA917719.
HMCHG76	3120	769734	1 - 498	15 - 512	AI628096.
HMCHK22	3121	974585	1 - 627	15 - 641	
HMCIA10	3122	963791	1 - 327	15 - 341	
HMCIA94	3123	853999	1 - 325	15 - 339	AI381684.
HMCIK90	3124	788596	1 - 389	15 - 403	
HMCIS32	3125	698541	1 - 373	15 - 387	
HMCKC30	3126	671952	1 - 354	15 - 368	
HMMAB49	3127	462502	1 - 356	15 - 370	D29160.
HMMAC10	3128	964846	1 - 299	15 - 313	AA468110.
HMMAC19	3129	953580	1 - 342	15 - 356	AA689256.
HMMAC79	3130	577951	1 - 443	15 - 457	

HMMAD06	3131	935734	1 - 388	15 - 402	AL031053.
HMMAD35	3132	964749	1 - 817	15 - 831	AI281624, AW450798, and AC002302.
HMMAD40	3133	666181	1 - 431	15 - 445	AC007165.
HMMAD58	3134	891329	1 - 668	15 - 682	AP000556, AP000552, AP000557, AP000128, AP000206, and AP000245.
HMMAE12	3135	970892	1 - 534	15 - 548	
HMMAE43	3136	715381	1 - 344	15 - 358	
HMMAF44	3137	855916	1 - 354	15 - 368	N54179, AI270768, T48871, T62975, AA812433, AI952786, AA652057, F12535, AA448858, AA077817, AA975249, AA125788, AA837351, AA581907, AA720702, AA025083, AI459486, F37052, W38980, AA569187, AA748121, AA649642, AI446464, AI266133, N40368, AA507169, AL045077, AF150152, H74314, AA604613, AW408161, AI460390, AA457280, R32200, AI830390, AW028353, T48872, T40077, AA613329, AA491762, AI016704, AA362700, R26134, AA593243, AI064864, AA452567, AI613459, AW406162, AL036523, N79258, AI439360, AI719434, AA443426, AA224966, AA377767, N23649, AL041706, AA338431, AA878495, AA482681, AC005839, Z84480, AC006026, Z49237, AL021391, AC005972, U07000, AC005207, AL031602, Z83840, AP000269, AP000103, AC006040, AC004134, AL021707, AP000688, AF130343, AC005410, AL109865, AJ003147, AC005387, AC004694, AC006153, AC005602, AF108083, AC005486, AF196969, AF207550, AC005632, AP000033, AL035587, AL035071, AF038406, AD000092, AC006211, AC005175, AC004035, AC005362, AP000512, AC003684, AL049589, AC005599, U07563, AC006222, AL121782, AL031589, AC005899, AL133353, AC004922, AC006965, AC004076, AC002543, AL031659, AL078581, AC005184, AJ010770, AL035072, AC004890, AC006251, AC005071, AC007637, AC005841, AL022476, AL035681, AC004983, AC000066, AC002551, AC005887, AL034379, AF053356, AC004595, AP000547, AL031281, AC005793, AC005187, AC004687, AL080243, AC004815, AC005037, AC002504, AC005519, AF131211, AL121825, AC005180, AC006985, AC004263, AC005193, L78810, AC003007, AC005702, AC003098, AC020663, AC016025, U27337, AL031289, AC005254, AC000025, AC005225, AC004819, AL049653, AP000313, AP000050, AC002039, U95742, AP000117, AC007216, AF001549, AC005046, AL049872, AL035658, AC005527, AC005488, AC004638, D88268, U27335, AC006270, U27333, AC005157, AC004596, AC005409, AC007919, AC004549, AL132777, U91326, AC002544, AL031668, AC006064, AC002984, AC016027, AC004854, AC004262, Z95329, AC000070, AF045555, AC009247, AC002477, AC006046, AL121658, AC006385, AC005529, AC004230, Z85987, Z98950, AC004583, AC002404, Z99943, AL008730, AC006958, AB023052, AL031432, AC007226, AC005484, AL022311, AC004966, AC008015, Z98753, AC004848, AC005369, Z99716, AC009178, AC007685, AC005233, AC007731, AP000556, AC004929, AC005261, AC005500, AP000552, Z83846, AP001053, D87675, AL031120, U85195, AC004017, AC006039, AF190465, AC004236, AP000506, AC006511, AC006509, AC009275, AL049757, AC007536, Z73979, AF015416, AC007151, AC003072, AC007993, AD001527, Z86090, AP000504, Z69705,

HMMAF70	3138	577918	1 - 695	15 - 709	AC005746, AL008719, AL031003, AC004973, AC005295, AC004241, AL049761, AJ246003, AC005914, Z69376, AC005480, AL031587, AC004491, AC005944, AC007193, AE000658, AC005324, AB000882, AL117257, AC004754, AC002299, AC004913, AC005231, AC004067, AC002996, AC005598, U96629, AC004486, AC004084, AC005690, AC005932, AC005332, AC007225, Z84469, Z93020, Z92542, AF129756, and AP000513.
HMMAF73	3139	506275	1 - 382	15 - 396	W05478, R27065, R23185, AA448346, AA744630, N71117, AA662694, AI610124, AL041926, X93207, and X93208.
HMMAH25	3140	677861	1 - 296	15 - 310	H72232, R47235, AC007993, Z98941, AL022336, and L44140.
HMMAH45	3141	674953	1 - 70	15 - 84	U61225, U61243, U60971, U61239, AC004883, U57834, and AF184614.
HMMAI03	3142	860715	1 - 299	15 - 313	
HMMAI56	3143	734563	1 - 306	15 - 320	
HMMAI61	3144	718876	1 - 465	15 - 479	AI355246, AW340905, AI249688, N57681, AA577824, AA904211, AI049630, AI038304, AW265279, AI366180, AI609972, R93919, AI762528, AI280266, AW265276, AI962030, AI754567, H29914, AI569100, AW192599, F35684, AW105463, AI755214, AW268090, AI955360, AI889579, AA584594, AA342238, AI306717, AI445373, AI653776, AI271762, AI268019, AI277783, AW022796, AI080307, AI824541, AI050076, AW082104, AA666215, AI754105, AW131356, AA736488, AW084173, AI283938, AL120282, AI133514, AA302982, AA558404, T03928, AA018923, AI923052, AA878492, AW301483, AI049845, R67701, AA456149, AA604831, AA297776, T40629, AW237905, AA302812, AA363027, AI885465, AI281818, AI720403, AW089625, AA487209, AA714190, AI634323, AA206707, AA610255, AW051819, AI049676, AA910941, AW337526, AW166641, AA847704, AI679045, AI250552, AI243793, AI251034, AA551798, H90114, AI254770, AI284543, AA714073, AI054090, AW029515, AI278972, AA219349, AW028950, AW265688, AA678932, AA484892, AW440568, AA626840, AI567391, AW265126, AI217131, W39287, AI049534, AI679759, AA493808, AA371410, AI247101, AI801479, AA846923, AA102737, AI185394, AA564925, AA630947, F34914, AA218684, AW129188, R86977, AA084320, AL079734, AW272599, AA618035, AA804694, H63758, AI354330, AA501614, AA838120, AW242031, AI251284, AI251203, AI223626, AI246996, AI565084, AA501614, AI446336, AI733856, AW328331, AI369076, AW328331, AI520925, H40478, AA947265, H94979, AI249853, AI446336, AI733856, AW008184, AA598927, AA458534, AA632556, AW081485, AA300177, AA535756, AW328330, AI242614, AI066646, AA629888, AI751753, F01222, AW081610, AI357628, AA877992, AW192402, T94394, AI431513, AA827875, AI879951, AI955029, W45416, AA535216, AI246192, AA557911, AA502110, AA504951, AI417586, AA599080, AA133293, AA493789, AI358712, AI560119, AA873303, H60935, AW162697, H84412, T71936, U89337, AL049776, AL133312, AC005736, AL031597, AC007225, AF053356, AC002492, AC005058, AC003992, AC005899, AC004230, AL021920, AC002312, AL122020, AC007690, AF109907, AL027717, AL031602, AC006960, AL020997, Z95115,

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HMMAJ18	3145	666195	1 - 335	15 - 349	
HMMAL28	3146	677446	1 - 419	15 - 433	
HMMAL63	3147	744861	1 - 422	15 - 436	AI252124, AL047643, AI061313, AW103415, AL138171, AI090513, AI674290, AI890928, AI890570, AL045451, AA715508, AI054030, AA832152, AI141675, AA683031, AA399158, AI287964, AA837709, AI037914, T94714, AI050007, H94871, H64905, AW403177, F23268, AL039761, N57057, AA313078, F28122, AI521112, AI039451, AI279756, AA429942, AA528405, AA375160, D44626, AI124660, AW339568, AA310796, AC005529, Z96074, Z93017, AL022336, AC005588, AC005102, AC005291, AC005102, AC002375, AC006537, AC004647, AC004816,

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HMMAP18	3148	666199	1 - 437	15 - 451	AI989372, and AL031589.
HMMAP45	3149	717599	1 - 455	15 - 469	AL046246.
HMMAP66	3150	668827	1 - 411	15 - 425	
HMMAP72	3151	671947	1 - 393	15 - 407	
HMMAQ04	3152	739304	1 - 482	15 - 496	AA773473, AA532875, AI207476, AA745302, AI370170, T94072, R52008, AI354333, F33490, H13120, H90114, AA335519, AA525807, H15295, AI432298, AA535483, AA713705, AA553332, AA482953, AA214227, AI418661, F35902, F23307, F00211, AW080215, AW381847, AW381904, AA713735, AI054414, H73550, AA626411, AI445774, AI620266, AA828897, AI933681, AI811647, AA018369, W45205, AA425924, AA364006, AL042310, AA626595, AA372881, AA937809, AA192293, AI925462, AA092862, T83057, AA363003, AA584207, C15362, H80989, AA629568, AI312090, AI690497, AA525379, AA856841, AI312784, AI733717, AA513884, AA376358, AA582746, N21300, AA715418, AF047825, AL035405, AL031602, AC005244, Z93241, Z49236, AL035659, AC005295, Z98884, AL031848, U63721, AC004128, AL034379, AC004988, AC002369, AC005828, AL121754, AL022336, AL031291, AC000120, AC004811, U95741, AC005182, AC002416, AC005086, AC002107, AC002106, AP000065, AL133448, AC008928, AL096701, AC005793, AP000270, AL031283, AC002477, AP001172, AC004631, AF148808, AL022327, Z93023, AB015355, AC006101, AC002511, AL122020, AC004967, AC002091, AC004821, AC005914, AP000304, AP000047, AP000032, AP000103, AP000115, AC004801, AP000493, AL049760, AC005993, AL035450, AF207550, AL117694, AC000025, Z98044, AL024498, AC007058, AL022163, AC005527, AL121769, AD000812, AC005049, AP000501, AC005510, AC007226, AC006312, AP000305, AC006476, AC006057, AC007546, AC003041, AL049829, AL031597, AF024533, AC005488, AL021453, AC005529, AC000070, AC005512, AL049548, AC006365, AF031078, AF030876, AL034348, AC007536, AC004013, AJ010770, AL109628, AB020863, AC002352, AC002126, U62317, AF196972, AC005539, AL109952, AC005324, AC005880, AL109623, AL049692, AC005264, AL132712, AC009946, AC006409, AL035683, AC002301, Z82178, AC005280, AL117258, AC005786, AL096766, AL049570, AC004106, AL135879, AL121790, AC004460, Z97832, AP000320, AC004851, Z98200, AC007792, AL008718, AC006077, AL049776, Z82215, AF196969, AL135960, AJ131016, AF015416, AC005105, AC004525, AC002303, Z85996, AC007308, AC007227, AC000378, Z68192, AC005088, AC006014, AC005105, AP000510, AL049301, AL022319, AL022726,

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HMMAQ15	3153	659966	1 - 600	15 - 614	AF039185, H94332, R18760, Z44908, AI591051, AL022238, AL121580, AL008721, AF178030, AC005694, Y18000, AL133224, and AC005529.
HMMAQ35	3154	707273	1 - 444	15 - 458	
HMMAR75	3155	919558	1 - 275	15 - 289	AA501441, AA632988, AA714955, AA618240, AI889579, C16358, AA136253, AA664126, AA719091, T94394, AA136477, AI355246, AW019964, H68343, AI306717, AW022891, W95552, AA368329, AW373542, AA494057, AA835778, AW237905, AA055422, AA482792, AI054090, AA630854, AI246061, R93919, AA650447, AI819391, AA378207, AI860535, T54173, AI609972, AI133083, AI300818, AI310992, AA847340, H86579, H93152, AA515939, AA670108, AI364568, AA503018, AA736488, AA683069, AA779667, AA831997, AA641112, AA229823, AA550989, AA594719, AA837771, N27874, AA524616, H78984, AI417586, AI679390, AI679898, AI445774, AA228979, AL040717, AA196552, AI821938, R83068, AW341955, AA344768, AL040763, R34070, AL048479, AI284543, H79586, AA602906, AL042667, AL042670, AA302978, AI254770, AA633424, AI251944, AI300054, AI251034, AI251203, AI309059, AI251284, AL041240, T40629, AA376358, AW271071, F23338, R51582, AA613761, AI250552, R32162, AW090333, AI469140, AA713724, AA345594, AI421723, AA230146, AI355103, AA015948, AW084173, AI962030, R70883, AA358178, AA468975, AA053463, AL119156, AI671077, F34506, AL119182, F24164, AA659425, AI337612, AW080118, R70884, T74524, AA483606, AW082104, AA622801, AL041375, AA347969, AA570740, T51874, AA568204, T93105, H40478, F34151, AA078384, AI249853, AL042373, AA583547, T60316, AA018923, AA012829, AW084967, C06210, AA568949, AW149241, AA503142, AI983447, AI354602, W45215, AA846978, F31634, H43183, R66537, AI925869, AL049563, AC005859, AC004982, AL050341, AL023803, AC005017, AC010582, AP000087, AC006544, AL035686, Z99716, AL110502, AC007221, AC005747, AC004849, AL049691, AC010206, AL022068, Z94056, AC002350, AC007114, AL031602, AC004801, AC005726, AC006312, AC004099, AC007563, Z97054, AL132712, AC004067, AC005920, AJ133269, AL022720, AC008072, AF067844, AC004988, AC005538, Z82206, AC002302, AC008498, AL031681, AC003992, AL121923, AC003085, AC006004, AC005191, AL049540, AL049838, AC008008, AC007917, Z95152, AL022329,

HMMAS88	3156	1 - 609	728019	15 - 623	AL021368, AC005569, AL109984, AL022330, AL031671, AL133396, AC005035, AC004032, U50871, AC002366, AL096765, AL034549, Z93023, AL021938, AL009179, AC003001, AL049729, AC006116, AC006543, AC005094, AL034420, AF178030, AL133353, AC006557, AL022162, AC003042, AL024498, AL117354, AL132857, AL079333, AC004843, AC008119, AC005277, AC002367, I34294, AC005280, AC005821, AC007182, AC003046, AL035684, Z83847, AC007387, AC003689, AL031667, AC005082, Z98941, AC004134, Z84480, AC004787, U73023, AC000025, AC007687, AL049779, AC004757, AC005527, Z80232, AC006582, AC019014, AL035423, AC005962, AC004585, AC004894, AC007743, AL031177, AL031121, AC009275, Z84474, AC005231, AC007200, AL031291, U89337, AC009501, AC007358, AF130343, AC006023, AC004831, AF121781, AC005182, AP000090, AC002066, AP000355, AC003684, AC004842, Z97053, AL022320, AC005529, AC007938, AC004217, AC007510, AC003664, AC004500, AC007240, AL109956, AF196779, AL049766, AC003037, AC004485, AC006387, AL049869, AC005908, AC008150, D87675, AP000152, AC004765, AP000210, AP000132, AP000248, AL133445, AC004816, AC005544, Z97832, U52112, AC006305, AC005294, AC005532, AL136168, AC006035, AC007193, AC004821, AC004884, AL049569, Z68324, U85195, AF002223, AC006088, AC005703, Z78660, AE000658, AC007253, AC002316, AL121820, AC005696, AL049643, AC006137, AL035563, U82828, AF049895, Z74581, AC004042, AP000008, AP000704, AC004983, AL031584, AL031983, AC003104, AL021546, AC005187, AL096678, AL133355, AP000106, AP000038, AC006501, AL035413, AL121825, AC004797, AC003991, AC006042, AL049830, AC005214, AC012384, AC006566, AC000035, and AC006115.
HMMAS91	3157	1 - 455	496192	15 - 469	AA721645, AA303054, AA806653, T94405, AA363078, R02532, T89133, AA729284, AA742815, AW069227, AC004975, AC003665, AF111167, AP000558, AC007382, AL031276, AC009263, AC009516, AC005233, AL022312, AC003070, AL031311, AC004000, L78810, AC004895, AC005017, AF001550, AL049832, AC002470, AL023803, AC005821, AL023577, AC007021, AC003041, AL109798, AC005200, AL021407, AL035086, AC004834, AF029308, Z85986, AL033375, AL035413, AC004257, AC005578, AC005773, AC004955, AC008044, AC004495, AC006445, AC005527, Y12851, AC005808, AL110122, AJ239325, D86566, AL031848, AC007030, AC004019, and AC002991.
HMMAT17	3158	1 - 448	662705	15 - 462	AA889566, AA935287, AL049232, and Z93016.
HMMAT26	3159	1 - 474	681416	15 - 488	AA829056, AA572879, AA828844, AB023049, AL022476, AC002470, AL049856, AC004526, AC007308, AC004491, AC005736, AC007376, AC007686, AL049776, AC005839, AC005291, AL031657, L78810, AC000052, AC005071, AC005899, AL031680, AC004955, AC006162, AP000512, AC006277, Z97056, AC004448, AL031295, Z85987, AL021707, AL109628, AC004659, AC002365, AC005244, AC006006, AB023051, AC004000, AC007358,

AC004019, AC006441, and AC005089.

HMMAT78	3160	733239	1 - 352	15 - 366	
HMMAU10	3161	964281	1 - 434	15 - 448	AW028950, F01222, AA878492, AA501867, AA773128, AI798041, AA342238, AA552724, AI249688, AA856815, AA857812, AA580572, AI538236, AA219024, AA303054, AA533660, R99533, AI587467, AA429942, AA666215, AI791659, AI077941, T69879, AI336771, AA618035, AI209075, T71936, AA693484, AA767966, AI271762, AA262908, AA436140, AI038304, AI754567, AI569100, AW192599, AI755214, AA508809, AA481811, AI080307, AA558366, AA664248, AA772016, AA410771, N28624, T56025, AA533054, C16638, AA745373, AA557790, AI754105, AA502991, AW339422, AA302978, AA832025, AA744401, AA612727, AA721560, H78195, AA219069, N67313, AA127222, AI471467, AA668587, AA487569, AA632765, AW007424, AA374240, AW242031, AA113126, AI860423, N63149, AA502568, AA385775, AI583448, AA228824, N70449, AA972523, AI860423, AA157876, AA947265, AA074143, AI252010, AA573000, AI819391, AA827383, AA157876, AA947265, AA074143, AA371410, AI252010, AI252880, AA902818, AA642823, AI249365, AA343523, AA714073, AW340905, AW023111, AA654482, AA126814, AA524800, AW073498, AA773881, AI929410, AA775188, AI753672, AA595554, AA503008, H60912, AI869786, N59744, AI762528, AI750950, W04464, AA598605, AA665181, AA046906, AA228979, AA229823, AI459879, AA773171, AA206707, H90878, AA019793, AI267450, AA659048, AA523703, T74259, AC005859, AP000194, AL133448, AP000696, AC005180, AL109798, AP000557, AC003692, AC004887, AL031587, AC000353, AC002375, AF129756, AL133163, AL034420, AC006064, AC005694, AC003108, AL008631, AL050321, AB016897, AC004084, AL022323, AC004492, AP000689, AL035086, AC005513, AC005412, AL109628, Z83826, AF205588, AC002310, AL032821, AC007671, AC005829, AC004466, AL022326, AC005231, AP000704, Z83840, AC007546, AC006014, AC007225, Z98946, AB020868, AC004019, AC006241, AL009179, AC006480, AC004491, AP000555, AC007688, AC005899, AC005399, AC004125, AL035249, AL049776, Z95114, AF064861, AL031287, AC005921, AP000510, AL035685, U95740, AC004531, AF003626, AL109623, AC005562, AC009516, AC005015, AJ003147, AC006948, AC005488, U52112, AL022316, AC006360, AC005529, AL035073, AC007637, AC007666, AC007686, AC004024, AC003983, AP000247, AC005088, AC005081, AC005841, U91323, AC007386, AI031666, AC002316, AL121658, AB023048, AD000092, AC004811, AC004216, AC003982, AL080243, AF053356, AC002301, AC005049, AC005102, AL133312, AC002120, AC002365, AP000514, AC004522, AC005755, Z86090, AF030453, AC005220, AC006571, AC006449, AC008044, Z98050, AC005216, AP000466, AL035415, AF038458, AL135744, AC005837, AJ251973, AC005071, AL034418, AC002563, AC005225, AC004797, AC004626, AP000692, AC007934, AC003086, AC006966, AC005519, AL024508, AC004228, AL109758, AL121754, AL022238, Z95152, AL031984, L78810, AC007687, AC005031, AC006006, AB003151, AC006023, AC007277, AL031123, AC004929, AC004551, AL096791, AL117356, AC006285, U80017, AL008716,

1901

HMMAV35	3162	707274	1 - 389	15 - 403	AL023513, AC007263, AC004234, AC005902, AC007226, AL031277, Z98304, AC005291, AC006487, AC006115, Z95115, AC005189, AC006312, AP000688, AC008040, AC004596, AC005484, AC016025, AC005058, AL121652, AL049779, AL022162, AC004967, AL050325, AC005082, AF165926, AC004080, AC016027, AC005050, AL031290, AC006581, AC004816, AC004884, AC005874, AF134471, AC016830, AL034554, AC006946, AF111167, AC007055, AL049869, AC004985, AL049553, AC007488, Z97053, AB020864, AC000025, AC002059, AC008372, AC006130, AC004966, AC007358, AC004000, AC006430, AL049569, AP000212, AP000134, U95739, AC003690, AL122023, AC005233, AC002425, AC005914, AC002558, AF111169, AP000246, Z97054, AP000167, AC004217, Z84469, AR036572, U91328, AC004820, AC005725, AL034548, AL133243, AL035660, AL022336, AP000962, AC005913, AL022318, AC007676, AL133246, AL049692, AL035454, AL020995, AC008115, AC006021, AC006406, AP000030, AL031659, AC004878, and AC006379.
HMMAV74	3163	742642	1 - 416	15 - 430	AC003042.
HMMAV85	3164	784221	1 - 253	15 - 267	AC000118.
HMMAV91	3165	854043	1 - 382	15 - 396	
HMMBD12	3166	866824	1 - 430	15 - 444	
HMMBD29	3167	935775	1 - 501	15 - 515	AA614263, AW195898, AW080413, AI300810, AA525318, AA767276, AA345400, AI942316, AA426571, AI039672, F33785, R02571, AI032037, AL046094, AA554430, AA830936, AA528234, AA644545, F18098, H58588, U91321, AC005781, AC002310, AL022334, AC004834, AC004762, AC005265, AC008044, AF053356, Z83849, AF118808, AC007327, AC005620, AC004143, AC004878, AC005034, AC004084, AC008009, AL024509, AC002287, AC006043, U52112, AC006275, AL031864, AL096791, AC005089, AL034420, AC007057, AC006449, AC005899, Z82178, AL033403, AC002300, AC006238, AC005666, AC003010, AL080243, AC006450, AC004787, AC002302, AI229041, Z99774, AC002420, AL034417, AL009174, AL049780, AC006530, AC002390, AC005874, and AF134471.
HMMBD33	3168	702222	1 - 404	15 - 418	
HMMBD79	3169	490057	1 - 349	15 - 363	
HMMBD81	3170	728362	1 - 338	15 - 352	
HMMBH76	3171	959722	1 - 351	15 - 365	AI469003, and AL049776.
HMMBI50	3172	868199	1 - 390	15 - 404	
HMMBJ26	3173	681407	1 - 459	15 - 473	AC004963, and U95740.
HMMBJ31	3174	697735	1 - 457	15 - 471	
HMMBM1 3	3175	577508	1 - 392	15 - 406	AA635985, AI378817, AA628245, T60029, T59956, and AC004985.
HMMBM2	3176	676996	1 - 499	15 - 513	H64058, H51675, AA424943, AA424944, AA873400, and H64008.

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HMMBM31	3177	855965	1 - 525	15 - 539	H92819, and AC005288.
HMMBM54	3178	729350	1 - 406	15 - 420	AL044245, AW438555, AI702314, H60864, and AC005971.
HMMBM77	3179	771979	1 - 450	15 - 464	
HMMBO43	3180	657400	1 - 365	15 - 379	AW006407.
HMMBO46	3181	856831	1 - 476	15 - 490	N83608, and AI127217.
HMMBP10	3182	964268	1 - 359	15 - 373	
HMMBP22	3183	674272	1 - 346	15 - 360	R71573, R71574, and AC008039.
HMMBP27	3184	682856	1 - 546	15 - 560	Z84483.
HMMBQ48	3185	721466	1 - 385	15 - 399	
HMMBR33	3186	702221	1 - 537	15 - 551	R72392, H86264, H86301, AA831388, AI264743, AA229650, AA229931, AA230119, AII25139, W07122, AI499094, AW069807, AA493508, AA229814, AW074398, AA558697, N71724, AI216799, AA714595, AI281754, AA484148, AI561335, AI355206, AA947370, AA377730, R08190, F32705, AA654968, AI474085, AI358501, AA652057, AA649642, AW169537, AW438916, AL041733, AA664770, AI610607, AI281881, AA743972, F28776, AI061296, H85616, AW023511, AA584581, AA528520, AI537185, AW193609, AW238016, AI963720, AI886176, AW069427, AI110770, AI887483, AA680299, AI818620, AA515435, AL037554, AI963095, AI610159, AA125788, AI744739, AI884487, AA569187, AI676218, AI648558, F35113, F36273, W60516, AA733208, AI312149, AA741474, AA578141, M78150, AI284640, N27353, AI287528, AW274345, AA358122, M62249, AI061334, F37223, AI435544, AI061227, AA610491, F19258, T47739, AW089789, AII43242, AA386111, AW023389, AA100915, AW236342, AW196798, F34558, AL046409, AA836811, AI367975, AA166721, AA664535, AA630362, F37169, AA720702, AI832577, AA457592, AL036523, AI761471, AA095511, AA598586, AA743177, AA569193, AI928790, AI205126, AI079809, N25296, AW406659, AA919037, AI469624, AW410116, AW088058, AI628288, AL120269, AW085740, AW276827, AI350211, F29702, AA775230, AW008317, T16592, AA744220, AI286264, AW243960, AA664407, AI633479, AA640979, AI732186, AA317170, AW193500, AI829964, AA916039, AA654627, AA736472, AI879000, AI612032, AW086257, AA659083, AA394271, AI963786, AA084070, W95976, AI830390, AA484262, C75026, AI200051, AI053672, W95841, AI151261, AA977743, AL040913, AL041412, T40338, AI312309, AI471534, AL133862, AI683577, F31204, AW173651, AA342901, AL119484, AA127354, AI017415, AA491762, AW406447, AW268231, AA284179, AL041368, AW265393, AI281903, AI307588, AI334443, AI255095, F35673, AW072587, AA663482, AI557323, AA130647, AA747480, AI493546, AI914913, AA448858, F32894, AI282336, AI354426, AI471481, AI246409, AI005388, AW193295, F28576, AL119123,

					AI924251, AI913017, AA368745, AA601270, AA658846, AW316969, AA557879, AI038990, AI569086, AA342958, AA533333, AW131249, AW029038, AA075754, AI287651, AI076616, AA847216, AA456976, AW193512, AA338522, AA938546, AA629419, AI801591, AI754955, AW408161, AI206785, AI733304, AI654588, AL031009, AL023582, AC006515, AL133245, AL080239, I51997, AC006285, AC006241, AL035587, AC005385, AC005993, AL031280, AC002398, AC004992, AC004028, AC016025, Z49816, AC003070, Z97634, AC006237, AC005754, Z92540, AC008072, AL022324, AC005939, AC003998, AC008124, AL023799, AP000556, AP000552, AC009516, AC004967, AC006374, M87919, AL020996, AL080238, AC004672, AC005193, AC005086, AC006060, AC006013, AF023840, AC003965, AC004151, AL021579, AC004848, AC006045, AP001035, M87918, AC005072, AL034402, AC006019, AC001234, AC004961, AC004614, AC005568, AL031721, AC005777, AL033521, AL050350, AL034554, AL133304, AC005225, AC007051, AC005209, AC007919, AC005879, U18396, Z80899, Z49236, Z95329, Y18000, AC005011, AC004882, AF060568, AJ003147, AC005529, AL008734, AC000118, AP000557, AC007773, AC009399, AR060470, AB029343, U29953, AB023059, AL031709, AF025422, AC000021, AC004195, AF164343, AP000509, AL035659, AL033377, AC005094, AL033403, AC004890, X06123, AC004257, AL031777, AC007242, AC010072, AC007262, AE000660, X60653, X61109, X55925, AC006476, AF108083, AC004087, AL078474, AL031224, AC004583, AC005007, AC005486, AC007227, AC009721, AC003992, AC007298, AC007225, AL049830, L48477, L48476, AC002347, Z82901, AC004042, AC002564, AC003087, AL021393, Z95113, AL078603, AC002064, AL031347, AF006752, AL050315, Z83840, AC007429, AC006116, AC004098, AC007065, AC007563, AC005358, AL021068, Z82204, Z68881, Z94865, L48038, AC004996, AC008122, AL022578, AL021878, AC000026, AC004841, AC007388, AC002059, AC006322, AC005412, AC004019, AB014079, AF027390, AC004993, AD000833, AC005602, AC000080, AC007536, AL049736, AC005350, AC002316, S70707, AL049562, AF038458, AP000080, AL078581, AC005663, AC002301, AL021155, AF188024, AC002072, AC003051, AL035417, AC005138, AC005969, AC006354, AC005940, AC005043, AC004049, AC003080, AC005815, AC006487, AC007537, AC005971, AC005954, D26067, AF154840, AC000403, AP000297, AF015725, AF129107, AF176915, AL031058, U92032, AC005303, AP000159, AP000018, AP000044, AP000112, AC005049, AP000345, Z73986, AL031668, AC011421, AP000346, AC004990, AL122003, AC007486, Z49235, AC006139, AC006958, Z98752, AC005923, AF045555, AP000514, Z95704, AC007324, AC008101, AC005410, AC004690, Z98946, AL024507, AC008079, AC016027, AC005081, AC004531, AC016830, U18399, AF119358, X80393, AC004797, AC005328, AC006128, AC004224, AC004752, AP000156, AC004217, AL031276, AC007690, AC005249, AC005495, AP000014, and AL022323.
					AW151657, AA782334, and AC005295.
					AL121852.
HMMBR77	3187	855942	1 - 460	15 - 474	
HMMBR91	3188	757047	1 - 465	15 - 479	

HMMBR92	3189	791274	1 - 330	15 - 344	AL135643, F13749, AI302242, AI753365, AI751162, AW162288, R92640, AI687206, AA947837, AI696793, AW383952, H91844, AA745337, F27015, AA650613, AL046746, F33138, AW381821, AA747889, H48546, M78021, AI628224, AI493264, AA779783, AI287921, AI783911, AA714073, AA457754, AW271917, AI927275, AA626829, AA569065, AA262752, AI570943, AI377413, AI357551, AW161636, AA811580, T05319, AW118529, AA339487, AA879053, T03412, AW167154, AA574286, AA558003, AA745356, AA132530, AA613627, AI859280, AA680243, T69679, T03203, AC003688, Z99943, AP000692, AL096818, AC007030, AC006101, AC007993, AC005288, AC004408, Z85986, U29953, AC005971, AP001054, AI022328, AC007536, AC005914, AF015720, AB023049, AC006057, AP000512, AC002072, AL133243, AC002425, AC005746, AC005211, AL031279, AC003035, AC005189, AC005356, AL031297, AC007684, AJ229041, AL022316, Z98750, AC006273, AL049869, AP000208, AP000130, Z97195, AC006211, AC004622, AL034548, AL034555, AL033517, AL096763, AC005274, AC006064, AC005740, AP000247, AC018767, AP000553, AC007227, AL031055, Z98884, AC004796, AL035587, AL049712, AF196969, AC006257, AC004216, AP000557, AL034419, AC004750, AL023803, AC005839, AL049776, AC004552, AC005599, AC005899, AC003957, AC004647, AC005104, AC006538, AC004975, AC004999, AC005284, Z86090, AL021397, AC006050, AC004983, Z98200, AC005874, AF134471, U73023, AC005178, Z93244, AC007735, AC000385, AC006581, M87889, AP000045, AF031078, AL031599, AC002302, AC005363, AC005606, AC004477, AF030876, AL121655, AC000026, AC002059, AL031670, AC007250, AC000113, AL031584, AL132985, AC007114, AL080243, AL034409, AC005254, U47924, AC004595, AC005225, AL079305, U91321, AC007263, L48476, AF037222, AC004042, AL021807, AL050402, Z82214, Z84487, AL031778, AC005220, AC008394, AC007277, U50871, Z69917, U73641, AC002558, Z85987, AL031311, AL117536, AL021395, L47234, AL050341, AL133448, AB014077, AC005330, AC004209, AC006139, U62293, U63721, AC005057, AP000514, AL022163, AL096791, AC006120, AC000114, AL049829, AC003664, AC004019, AC004150, AL117340, L44140, AF002223, AL033397, AF190465, AL022151, AC002527, AC005280, AC004895, L06849, AC004913, AF124730, AF124731, AF020803, AL049867, AP000694, Z95703, AC004066, AC005520, AC005940, AC007630, AL049834, AC006511, AC003101, AL133163, AL132987, AF045555, AL034379, AC004099, AC002377, AC007011, AC005081, AC000052, AC006449, AC004966, AL035659, AC006312, AC004813, AL021394, AL033521, AL035415, and AL035603.
HMMBS41	3190	711733	1 - 296	15 - 310	F33940, and AL035652.
HMMBS61	3191	741656	1 - 403	15 - 417	T70715, and Z92846.
HMMBT27	3192	682325	1 - 324	15 - 338	
HMMBU27	3193	716049	1 - 545	15 - 559	AI446464, AA513181, AA513141, AA441788, AI064864, AI469172, AA715270, AI133164, AI754955, AI569086, F28576, R77905, AA136004, AA340747, AA634911, AA649642, AW072923, AA525127, AI049722, AI284640, AA747472, AA618141, AI246796, AW021583,

AL041706, AA985038, AW419262, H61887, AA515751, AW238278, AL046409, AW238016, AA306732, AA377730, AA715362, AA604607, AA491762, AI921296, AI357551, F33566, AA557686, AI590689, AI590958, AI053672, AF150152, AW440976, AI452599, AW236342, AA327323, AW088224, AI824562, AW084253, AA669522, AI434695, AI929531, AI354426, F37169, AI281881, H56013, T08638, AW088058, T40077, AW193546, AI709365, AA483034, AA669251, F18638, AI264743, F33121, AI350211, AA528553, AI079910, AI287651, AW341892, F23279, AA747480, AA657533, AW276827, H70615, AA357987, AA598997, AI085719, AI287964, AW338508, AW302013, AI379719, AW131034, AL041513, AA101719, AI198376, AA977743, AW276435, AI341664, AI688846, AI648558, AW162049, AW193265, AI434311, T53607, AI312149, AI633168, AA507786, AL043721, AA714453, AA664407, AA598464, F36273, AW408161, AA469451, AW080134, F26152, AW303196, AA626404, AA318652, AW407578, AW274349, AI537955, T41242, AI697353, AI286264, AI583594, AL038474, AW265253, AI471481, AI937850, AI291124, AW088202, AI590772, AI284595, AA551575, F28776, AA358122, AA610786, AA501722, AW168342, AI358501, AW406162, AA338522, AI291268, AW193432, W79504, AI612280, AI364809, AA664535, T47588, AW402118, AA146625, AW072587, AA720702, AW338086, AI537030, AL079645, AA838140, AA502155, AI801591, AA350859, AA317170, AW089322, AI921541, AA644666, AW301350, T07287, AI653886, AA381147, AI144330, AA680299, AA244415, AA715609, AA827981, AW022379, AA177061, F25867, AI431303, AA593752, AW392595, AI079809, T07324, F23327, AI307201, AL119750, Z78385, AW406447, AW270270, AA947370, AI334443, AA515435, AI281903, AA586458, AL042856, F03525, AI205126, F34498, AA654741, AA515051, AI830390, AI890923, T06556, AL043756, AW162489, AI962050, AI312309, AW023270, AA364224, T40617, AI266133, AA176924, AI148277, W95976, AI279165, AL041733, H58635, AA605274, AA351893, F35650, AA632845, AA659083, AI219406, AW029038, AA832181, AW166815, AA323749, AC005019, M87918, AC007842, AC005684, AC005919, AL035685, AL031587, AL035413, AF053356, S42655, AL031734, M87919, M87891, L81583, AF090944, AC004039, AC009330, Z98304, AC007551, AL049829, AC005330, AC007114, AL132716, AC005091, Z13970, U85195, AC009542, AC000052, AC005229, AC005300, AC005971, Z82173, AE000658, AC006946, AC006480, AL035461, AP000656, Z99495, AC007051, AC006277, AC004593, AC008055, AC006255, AL021878, AC002460, AC006571, AC008056, Z82184, AL121653, AL008718, AL033392, Z95331, AP000302, AP000114, AP000046, AC006476, AC004993, AL031255, AC007537, AC005013, AL031005, Z98043, AF091512, AL133546, AC005180, AJ003147, AC005018, AC004745, AP000946, AC005150, Z99289, AC007514, AC000121, AC004492, AC002375, AL022721, AP000507, AF064863, Z68269, AP000953, AC004854, AL133448, AC006012, AC006991, AF064863, Z68269, AP000953, AC004019, AC004854, AL109963, AL033527, AC006241, U44395, AL110502, AC004495, AC004550, AL078613, AC004066, AC007151, AC000041, AC000003, AP000697, AC005939, AC016026, AC005237,

					AC004695, AC008163, AP000689, AC005078, AB017567, AL049777, AC006273, U85196, AL008583, AC005695, AL033521, AC005803, U02054, AF018071, Z49918, AC005343, AC005031, AC007243, AC003108, AL031346, AL080238, AC003684, AC004502, AP000230, AP000144, AC004865, AL109967, AC002980, Z82206, AC007312, AC007406, AC006996, X52851, AL049845, Z82215, AC005331, AP000275, Z82244, AP000105, AP000037, AL050333, AC005154, AL050318, AB020868, U80017, AF019413, AL049766, AC006125, AP000359, AL049869, AL133243, AC004913, AC004448, AC004408, AC004180, AC005608, AL031280, AC009247, AF064857, AC002418, U04737, AC007298, AL136130, AC012599, AC004638, AL109654, AL034420, AL121748, AC007488, AL096767, AL109627, L34079, AL021068, AC020663, AC003982, AC004062, AL121576, X54175, AL022315, AC004953, AC007191, AC002091, AC006509, AL031291, AF161343, AC004895, D83989, AC006071, AC006392, AP000855, AC004886, U50429, AC000095, AF196779, X75335, AC003007, AL078460, M87916, AC004973, AF196971, Z95114, AC007773, AC004941, AF047825, Z98036, AL049776, AC004447, AC004686, AC007845, AC008009, AL050312, AC004699, AL008630, AC006561, AF124523, Z99128, AC004690, AC002289, AC005324, D84394, AL021939, U57005, AF027390, AC004025, Z82192, AC002133, AL009177, AC005339, AC004386, AC000080, AC006292, AC002078, AL132774, AC005663, AC004918, AC002301, AL031687, and L07900.
HMMBU75	3194	490083	1 - 350	15 - 364	AC006987.
HMMBU78	3195	773426	1 - 696	15 - 710	W02201, H78487, and H78389.
HMMBV17	3196	662684	1 - 463	15 - 477	AI792272, AL121235, AI954248, AA018823, AI698342, AA654781, AI866487, AA730798, AI471887, W24602, AI470646, AI468899, AA679936, AL138455, AI312309, AA478355, AI732120, AW085780, AA680243, AI049508, AW089101, AW003867, AI088768, AA533333, AA279365, AI366993, AA012964, T03217, AI950983, AA640410, AA640430, AI754336, AW023302, AI611895, AA088727, AW275498, AA515644, AA746719, AI358384, AL041146, AL138396, AI431303, T61978, AI753929, AL119649, AA833896, AA833875, AI791913, AI792133, AI821714, AA081044, AA081462, AA876445, AL037574, AA099939, AL046519, AI816141, AL079637, AL040921, AA228349, AL036413, AW022065, AL044441, AI042311, AA847952, AA729697, AA634853, AL036037, AA601876, AA483256, AA582549, AW263415, AI873852, AW380254, AI633479, AI732151, AI828710, AA774059, AI457397, AA515440, AL121207, AL046457, AA493136, AI754567, AI754105, AI755214, AA570602, AA303007, AI124610, AL134519, AI680562, AI886654, AL134972, N99489, T09124, AI609464, AA478866, AW022406, AI754253, AA588001, AW327868, AI499451, AI691091, AI524515, AI635217, AF034176, N49368, T60156, AI572924, AI991323, AI630176, AL119306, AA503039, AA618452, R17793, AA516058, AW168383, H72530, W20344, F05324, AI862939, AA493708, AW028429, C16438, AA916171, AA358515, R94326, T73699, W52505, AI821785, AL118991, AA377385, M77938, AI079389, AL042635, AI751216, AI446682, AW410354, AA478867, AA551552,

HMMBV53	3197	727572	1 - 201	15 - 215	C06339, AI700109, AA846952, AL037550, AI675305, AA449594, AW103676, AC005358, AC005587, AL022163, AC004813, AL021154, AP000354, AC004821, AC005484, AL031575, AC009263, AC005145, AL031722, U82696, AC003006, AL031677, AC004000, L78810, AL049845, AC005065, AC006388, AL133245, L30117, AC001082, AC002300, AC004812, AC005971, AC007308, AC002483, Z94277, AC007011, AP000476, AL021328, AL031123, AC007225, AL080248, AL034423, AL030999, AL109963, AL023653, AP000569, AC002368, AC004819, AC002553, AC007172, AP000350, AC004895, AL031650, AC002429, U82083, AL109837, AP000689, AC007738, AC006254, AL117328, AC003104, AL049759, Z99496, AC006203, AC007358, AC005903, AC004836, AC003025, AC004991, AC004466, AF139813, AC004228, AL049823, AL008629, AP000656, AC002404, AC003964, AC010209, AL031296, AL008634, AL049779, AP000349, Z98752, AC002996, AL031584, AC006537, AC007002, AL121882, AL020997, AC005544, AL035089, AC008372, AC006040, AC007462, AC004492, AC002385, AC004471, L77570, AL049776, AC004673, AC007655, AL109865, AC004196, AC004796, AJ009632, AL021937, AC004019, AC007371, AC005071, AF002223, Z73420, AC005234, AL034345, AC006468, AP001050, AP000070, AC007590, AC002115, AC005102, AL035683, AB023049, Z74739, AC004525, AC002303, AC005550, Z82201, AL031667, AL035688, AC005527, AC003669, Z98884, U96629, AF196779, AC006271, AL031775, AC004622, AC005951, AC005908, AF001549, U85196, AF164623, AL031257, U07562, AL035634, AF019664, AC004633, AP000359, AC004595, AC005682, AC007649, AC006430, AC005004, AL008637, AC007444, AC004864, AC004519, AC007304, AP000097, Z97181, AC004691, AP000201, AC010168, AL023805, AP000556, AC007262, AC006050, AP001037, AP000240, AC006160, AC005519, AL023805, AC022323, AC005209, AL049829, AL096712, AC004263, AC004841, Z86061, L07900, AC002347, D14436, AF048728, AC002082, Z81314, AC006146, AL022312, AL031295, AL049692, AC004822, Z98941, AL031427, AL035448, AF001550, AC005669, AC007685, X55933, AF222686, AL021808, AC007784, AC004675, AL133353, AL049869, AC000025, AP000297, Z68226, Z98047, AL034421, AP000044, AP000112, AC004087, AC008163, AP000697, AC007110, AC002452, Z98048, X55924, AL022329, X54180, AL117354, AJ003147, AL031054, AR036572, U91328, AC004950, X63773, and AE000660.
HMMBV71	3198	490078	1 - 369	15 - 383	T73734.
HMMBX63	3199	729268	1 - 313	15 - 327	AA905066, AA767350, AI696646, H71659, Z98036, AL109758, AC005914, AF111168, AC002425, AC005072, and AC004551.
HMMBZ91	3200	753799	1 - 411	15 - 425	AC005877.
HMMCA43	3201	715085	1 - 434	15 - 448	
HMMCB67	3202	735293	1 - 755	15 - 769	R10827, AA165653, AA678092, AA165550, and Z95152.
HMMCC09	3203	625368	1 - 468	15 - 482	W27527.

HMMCD21	3204	670651	1 - 182	15 - 196	AF067844, and AF143313.
HMMCE16	3205	577388	1 - 283	15 - 297	H71992, AA508364, AA508371, and AI174714.
HMMCE26	3206	935148	1 - 522	15 - 536	
HMMCF94	3207	913661	1 - 485	15 - 499	AA565911, AW238341, AI904445, AI143653, AI192839, AA209436, AI709180, AI251944, AL046818, AW073950, F16409, AW390601, T05617, R19199, AI445557, AW337805, N54397, AI917904, AA337978, AI269639, AA299351, C06329, AA678616, H61871, AI080732, AI619994, AI054090, AA566084, AA502101, AA364315, AA582746, AW373645, H68343, AI926597, N23919, AI633386, AI246061, R89560, H53085, AW057719, AA372799, AI791291, AI791469, AI249365, AI567391, AI732514, AA527109, AI732243, AA658934, AA054055, AI298079, AA610255, AI284543, AA825784, AL138252, AA114131, AL042373, AI254770, AI783820, AL042667, AL042670, AA586433, W96277, AA081770, AA603432, AI571161, AW190484, AI251034, N64437, Z85987, AJ236701, AC005520, AL031685, AC000085, AJ006995, AL034421, AC006241, AC002101, AC005256, AC007363, AC007263, AC003070, AC007114, AL078581, AL031657, AC004491, AC004985, AC007055, AC004526, AC004991, AC002470, AC005324, AC006023, AC004686, AC004687, AL080243, AF053356, AP000692, M26434, U07563, AC005730, AC002351, Z98752, AL022311, AP000359, AF134726, AL031651, AP000350, AC004834, AL034549, AC004383, AC003030, Z97353, AC004583, AC005914, AC006512, AC004859, AC006441, AL031681, AC004796, Z85986, AL035405, AC006251, AL031295, AC002996, AP000228, AL035658, AP000088, Z98050, AC005565, AC004531, AC004858, AC006312, AC005535, AC005920, AP000140, AC002369, AF109907, AC002350, AL021918, AF196969, AC005844, AF165926, AC005993, AC005089, AC002395, AC009516, AC005399, AC005696, AF217403, AC004131, AC005409, AL109827, AC005067, AJ251973, AF001549, D43727, AL034418, AL050308, AC000379, AC005911, AP000126, AP000204, AC002312, AF001552, AL096712, AC004019, AC005049, AL022322, U52112, AC006273, AC005212, AL035086, AF196779, AF111163, AC002504, AC006121, AC000082, L78810, AL031229, AC005837, AC004150, AC006111, AL031803, AC002407, AL031848, AC006501, U91323, AC003029, AC005071, AL049643, AL031678, AL034420, AC004884, AL133445, AL021878, AL049766, AL049591, AP000244, AC006317, U85195, AL049653, AC005206, AC005003, AL109758, AL049856, AJ003147, AC005231, AC002994, AL031597, AL049569, D84401, AL079301, AC004223, Z99716, AC008734, AC005211, AL133163, AC010206, AC004844, AC005328, AF091512, AL031291, AC002426, AL031672, AC000025, AC005203, M29929, Z68323, AC002551, AL035455, AC005924, AL031846, AL022326, AF067844, AF045555, AC006001, AC004953, AC003687, AC000070, AC006064, AC005667, AC005736, U95740, AL035415, AC007388, AC005081, AC006360, AC011625, AL023694, AJ133269, AC009501, AL031123, AL133245, AC004814, AL096701, AC005899, AF207550, AC005529, AC006511, Z98950, Z95115, D87675, AC009405, AC001227, U82828, AP000510, AP000501, Z95152, AC005005,

HMMCH04	3208	944069	1 - 670	15 - 684	AC004912, AC007546, AC005552, AC004967, AL049869, AL031432, AC007450, AC002365, AL008730, AL031737, AP000008, AC006571, AC007021, AL122020, AL033527, D87012, AC006126, Z75887, Z93244, AL049780, Z97053, AL121769, AC009263, U91321, AC002404, AC007308, Z68164, AL049843, AL121603, AC004020, and AC005940. AI049671, AI034206, AW192002, AAA42431, T59937, AW069110, AI678812, AA515742, AI679394, AI925423, AI679902, AI523205, AA676592, AA642809, AW392414, AA362349, T07903, AI123488, AA946848, AI471455, N63358, AI687343, AI206078, AW079877, AW270329, AA362348, AA640310, T03576, U48471, AC005940, AL020997, Z94801, AC006088, AC004849, AL121658, AC006064, AC005003, M33132, AC004589, AC004645, AL080242, AL117328, AC003077, AP000514, AC004584, AC003007, AC004895, AL121769, AC006111, AC005632, D84394, AC005696, Z99943, AP000354, AL109952, AL049757, AC004148, AL031281, AL035457, AC005089, AC007312, AC000353, AC005837, AL035413, AC004686, AF030933, AC005412, M17262, AC002050, AC005944, AL133382, AC004506, AL035398, AL109963, AF045555, AL022322, AL034553, AC006251, AC006367, AC003689, AC006455, AL031770, AP001052, AL022162, Z99129, AP001053, AJ010770, AC005081, AC006536, AC005746, AC005274, AC005015, AC004983, AC006511, AL035588, AL080317, AL031311, AC005358, U78027, Z98051, U07563, AF064859, AC003950, AL022069, AC006141, AC007565, AL035422, AC003108, U01337, Z84466, AL109623, AC009399, AC009365, AC007066, Z93930, AP000694, AC018633, AC003080, AC004893, AC005763, AC004035, AC005362, Z49237, AC000069, AL096703, AC002316, AC007421, AP000502, AC004996, AL008635, AC007326, AC006597, AC004796, AC004638, AC004585, AC000120, AC002089, AC004984, AL122020, AC024508, AC006226, AC005225, AL121757, AC007376, AC007917, AL049835, AC006057, AL049779, AF029308, X71402, AC002115, AL132987, AL031587, AC001231, AP000511, AC009501, AL023553, AL021707, X99832, AC003029, and U80017.
HMMCI03	3209	923771	1 - 385	15 - 399	
HMMCI43	3210	864098	1 - 430	15 - 444	H60700, AA465255, AA984765, R51650, N31773, R93782, AI265884, N56201, and AF151819.
HMMCI67	3211	587819	1 - 479	15 - 493	
HMMCI83	3212	855918	1 - 425	15 - 439	AC002302.
HMMCJ93	3213	708060	1 - 661	15 - 675	
HMMCK81	3214	666792	1 - 346	15 - 360	AC007165.
HMMCN36	3215	919484	1 - 463	15 - 477	
HMOAC95	3216	677110	1 - 206	15 - 220	
HMPAA21	3217	670114	1 - 546	15 - 560	N59555, AA362113, and AA362136.
HMPAE62	3218	754152	1 - 270	15 - 284	AA362224.
HMPAP52	3219	709621	1 - 264	15 - 278	

HMPBA34	3220	1 - 450	15 - 464	AA362267, AA362266, AF017104, and AC016831.
HMPBB11	3221	1 - 318	15 - 332	AA362334.
HMPTA49	3222	1 - 324	15 - 338	
HMPTE27	3223	1 - 394	15 - 408	
HMPTG84	3224	1 - 491	15 - 505	AC002112.
HMPTI69	3225	1 - 355	15 - 369	
HMQAB40	3226	1 - 485	15 - 499	AI523941, AA055449, AA232904, AA233033, and AA055448.
HMQAG45	3227	1 - 347	15 - 361	
HMQAL95	3228	1 - 307	15 - 321	
HMQAO34	3229	1 - 250	15 - 264	
HMQAP31	3230	1 - 208	15 - 222	AW044231, and AC003681.
HMQAS25	3231	1 - 469	15 - 483	
HMQAU20	3232	1 - 359	15 - 373	T87899.
HMQAX65	3233	1 - 295	15 - 309	AL021453.
HMQBD30	3234	1 - 352	15 - 366	AA933089, AI680336, AW157317, AA523285, AW170427, AW170278, AA974441, AI027987, AI074894, AA102451, AI631081, AI591067, AI992135, AA643152, AI357176, AA577581, AA148225, AI031764, AW166779, AI857843, AI027266, AI568168, AA862399, AA205564, AI923284, AI951177, AI185759, AI924241, AW193281, AA779812, AI280897, AI928891, AI580036, AA824336, AA523194, AI208491, AW162293, AAA417116, AA512937, AA166670, AI138933, AA410871, AA843221, AAA497015, AI090410, AW327970, AI366939, AI891047, AI372093, AA417257, AA776942, AI083704, AA776511, AA580420, AA860537, AA716753, AI094406, AA827004, AI817572, AI027989, AI673583, AI276716, AI245211, AI986389, AI073857, AA595784, AI816482, AI751720, AI439302, AA976926, AA771950, AA088664, AI520873, AA813071, AA458901, AA878692, AI252636, AI039067, AA860792, AA399535, AA722780, AI538971, AA971121, AA995822, AA722354, AA480057, AI887538, N24774, AI282434, AA625734, AA968695, W31392, F33205, AA292590, C05840, R53540, AI439351, AA428428, W15347, AA757714, AI192786, AI929797, AI085365, AI439295, AA971044, W95395, AA923667, AW162981, AW161746, AA383387, AA158971, AI073973, H92319, AA156280, AA890640, AA581636, AA158959, AA640130, N32793, H17478, AA130481, AA907137, AA130482, H29049, T58022, AA886217, AW172803, AI761395, AA235711, F36843, AA488204, AA284912, AA426152, AA643884, AW250923, F17431, R49138, AW130002, F33987, AW148600, AI004901, AI566499, AI751319, AI869823, AA662261, AA643919, AA505425, AA669508, AI537266, AA587451, AA477813, AI885826, T86930, AA374990, R17686, AA397788, N94618, AA296827, AA553934, AA158603, AA459096, AA235724, AA402833, F03779, AA635762, AA877354, F02931, AI886255, AI768303, AW068766, AI369668, AA421441, AA410723, AA402684, AA969529, AA852879, AI309009, AA402130,

HMQBH12	3235	1 - 250	15 - 264	AA421351, AA421619, AA410870, AW375304, AW175934, AI814213, AA625735, AW163631, AL045635, AW075260, AW327969, AA401998, AA411213, F01865, AA299729, AA146597, AA428874, F04770, AA664466, AA662445, AA284999, AA404572, AA351185, F11009, AW298320, AI800313, AJ131182, AR033742, AJ249366, AC005197, X76980, Z32554, and U89427.
HMQBL13	3236	1 - 397	15 - 411	AI800901, AI651852, AI654079, AI500417, and AL008730.
HMQBL17	3237	1 - 266	15 - 280	
HMQBL54	3238	1 - 292	15 - 306	AA809189, AC005280, AL110150, J03818, and AC002115.
HMQBM27	3239	1 - 265	15 - 279	AI373509, AW015352, AW131241, and AI500443.
HMQBM59	3240	1 - 332	15 - 346	
HMQBN41	3241	1 - 249	15 - 263	AC005994.
HMQBO17	3242	1 - 306	15 - 320	
HMQBP18	3243	1 - 356	15 - 370	AW369276, AF199364, and AC004893.
HMQBP26	3244	1 - 297	15 - 311	W79802, and AA773227.
HMQBP54	3245	1 - 321	15 - 335	
HMQBT65	3246	1 - 294	15 - 308	AI887232, and T78614.
HMQBU96	3247	1 - 404	15 - 418	AA453179, R71855, AA043907, F07759, AW248202, AA302385, AL047640, AA284122, H18360, H19959, H20698, H21242, AA434198, H46841, AA292979, AW247172, D52938, AA131344, AA203288, Z45125, H85906, AA017593, R81429, AW381812, AW392072, T19067, R55922, AA306741, AW381820, AW381788, T32135, R48687, W93644, D56251, AA308717, R59408, AA017424, R61099, H08032, R19873, AA321261, AA069353, AA410846, AA843927, W93904, AA984067, AA477522, AA523404, AA582827, AI885457, AA861765, and AC005067.
HMQBW05	3248	1 - 146	15 - 160	
HMQBW76	3249	1 - 204	15 - 218	AA381112, T29768, and AA381110.
HMQBX07	3250	1 - 255	15 - 269	
HMQBX35	3251	1 - 353	15 - 367	
HMQBX74	3252	1 - 122	15 - 136	
HMQBY10	3253	1 - 404	15 - 418	
HMQBY34	3254	1 - 119	15 - 133	
HMQCC67	3255	1 - 304	15 - 318	
HMQCK09	3256	1 - 192	15 - 206	
HMQCO77	3257	1 - 359	15 - 373	AI910103.
HMQCV51	3258	1 - 346	15 - 360	
HMQDA84	3259	1 - 243	15 - 257	
HMQDC34	3260	1 - 335	15 - 349	N99626.

HMQDC96	3261	765810	1 - 298	15 - 312	Z97989.
HMQDD41	3262	575536	1 - 347	15 - 361	
HMQDE85	3263	963366	1 - 333	15 - 347	
HMQDN16	3264	712588	1 - 343	15 - 357	AC005576, AF117947, and U77631.
HMQDN77	3265	772436	1 - 406	15 - 420	
HMQDQ84	3266	783176	1 - 419	15 - 433	AA630827.
HMQDZ19	3267	940694	1 - 155	15 - 169	
HMRAD49	3268	868185	1 - 398	15 - 412	H13140, AA613909, AL031594, AL031274, and AP000696.
HMRAD74	3269	765975	1 - 560	15 - 574	H72232, AA650447, AA713724, AI678754, AA001345, AC004805, U91318, AC003663, AP000466, AL021578, AL109946, AC004832, AC005911, Y10196, AC007546, AC005225, AC007993, AL049843, AC005778, AP001052, AC007057, AC004685, AC004967, AC005081, AL034417, AF031078, AF030876, Z98304, and AL031602.
HMSAC03	3270	960949	1 - 401	15 - 415	
HMSAH89	3271	935429	1 - 470	15 - 484	N35693, AA312724, AI915293, AA381762, H54210, AA347927, H71250, AI460103, AA593471, AA347930, AI623563, AI270476, AA601986, AA487219, AI076236, AI338426, AA487079, AW383952, R92301, AA358623, AA634209, F33138, AA604843, AI305258, AI090334, AI791150, R70883, AA372778, R70884, AA599423, AA573213, AA761795, AI803809, AA702618, R90740, AA526757, AA650135, AA341228, AA367788, AL046746, AW265688, H80203, AA828867, AA614010, AI284108, AI888405, AA939320, AA828047, AA781504, H85059, AI471572, AW264264, H40017, AA551339, AI096403, AA347565, AW407919, Z99496, AP000493, AL031431, AP000964, AC003689, AC000118, AL034548, AC006270, AL022323, AL078477, AC008101, AC016027, AC016830, AI250915, AL096702, AC009275, AC002558, AL080243, AL020996, Z49237, AC003663, AC005209, AC008079, Z93023, AC002350, AC007686, AC002106, AC006080, AC005914, AC007784, AJ010597, AL034449, AC004890, AC007057, AL049872, AL034418, AL031735, AC007435, AC005193, AC002045, Z82215, AL035703, AL049780, AC006530, AC000095, AC005512, AC007436, AP000336, AL049540, AP000215, AP000475, AC006211, AC008154, U91321, Z49194, AF008243, AB015355, AC006602, AC004934, AC004525, AC007136, AL034555, AL035653, AC005874, AF134471, AC005081, AC005229, AC001228, AL121595, AC004865, AC006117, AC005257, AC006261, Z68756, AC005944, AC004685, AL096701, AC000052, X87344, AL049830, AC004019, AF003626, U78027, AL049709, AL022313, AC002073, AL035422, AL109837, AC004859, AL121576, AL032821, AC006501, AC008122, AC004061, AC010205, AC004196, AL031055, AC005295, AL020997, AC005409, AL035443, AC007277, AL035415, AL117258, AC005832, AL139054, AC005330, AC005778, AL021397, AC006973, AL031681, AC005725, AC005476, M90058, AC002398, AC003041, AC002996, AC005399, AC005242, AC008928, AC007993, AC007546, AL009363, AL121655, AF111167, AC000134, AL109627, AC005726, AL008718, AC005921, AL096791, AC008009, AC006487, AC006480, U29953, AC002057, U82668,

HMSAI08	3272	1 - 372	15 - 386	AF165176, AC004638, AC005177, AL022345, AL022165, AC007386, AC006449, AP000018, AP000160, U73649, AC000092, AC005581, AC003109, Z97630, AL049610, AC005905, AL022397, AL034379, AC002039, AL023803, AC005041, AF029308, AC005003, AP000339, AC003006, AP000217, AC006515, AC005225, AC004185, Z93848, AP000152, AP000011, AP000509, D87009, AL109839, AL031447, Z97056, AL121652, D84394, AC006271, AP000962, AC005037, Z99943, AC002553, Z98884, AL022239, Z82184, AC005513, AL121825, AC004985, AL034402, AC004594, AC005261, Z68164, AC004257, AC000015, AL008725, AC003077, AP000502, AC006597, Z95113, AF207550, AL021707, AL121877, AF134726, L47234, AC005342, AC007773, AL031729, AC007695, AP001059, and AP001058.
HMSAI44	3273	1 - 363	15 - 377	AC007401.
HMSAO46	3274	1 - 408	15 - 422	AW452096, AW450553, AI887415, AL042655, AL042654, AW295630, and AL035405.
HMSAP87	3275	1 - 341	15 - 355	
HMSAQ64	3276	1 - 374	15 - 388	W38562.
HMSAS62	3277	1 - 373	15 - 387	
HMSAX08	3278	1 - 448	15 - 462	
HMSAX13	3279	1 - 352	15 - 366	
HMSAX31	3280	1 - 365	15 - 379	
HMSAX32	3281	1 - 345	15 - 359	
HMSAX33	3282	1 - 451	15 - 465	F24792, H77666, AA594145, AC005971, AC004491, AC003663, AC019014, AL133245, Z95703, and AC005602.
HMSAX85	3283	1 - 317	15 - 331	
HMSAZ07	3284	1 - 186	15 - 200	
HMSBB19	3285	1 - 560	15 - 574	AI910889, AI524744, AI347447, R72293, AA765015, AA736789, AA808343, AA865106, AW182983, R71382, R72338, and R70163.
HMSBB44	3286	1 - 339	15 - 353	AB033020.
HMSBF59	3287	1 - 416	15 - 430	AC004687.
HMSBF84	3288	1 - 235	15 - 249	
HMSBH79	3289	1 - 296	15 - 310	
HMSBI72	3290	1 - 331	15 - 345	AL035073, and AC007446.
HMSBM43	3291	1 - 605	15 - 619	AA577706, AI733856, AA315052, AA491941, AA904275, H67155, AA657835, AA664135, AI061313, AL079734, H79591, T74524, T46960, R76686, AA632744, AW271904, AL042667, AL042670, AW023111, AW069412, AW104161, AA071334, H60813, AI380617, AW265688, AA525423, H07953, AA641651, AI791185, AI056177, AA410788, AI754170, AA555232, AI541154, AA833896, AA833875, N29105, AI560866, N66065, AA595770, AI569401, AA502149, AW265614, AL134330, AL031005, AC007376, AC006071, Z97054, AC005722,

HMSBM81	3292	1 - 339	15 - 353	AC007182, AC006312, L78833, AL050332, AL033397, U91323, AC005696, AC004217, AL031282, Z93930, AL031588, AC004812, AF117829, AC007349, AC004771, AC005839, Z85986, AL008726, AL121603, AP000251, AC002565, AC008072, AC005914, AP000212, AP000134, AP000030, AL031447, AC004895, AF111168, AC007537, AC007308, AC004841, AC005527, AL096703, AC002550, AC004067, AL035249, AC006538, AL049611, AC007536, AC002302, AP000558, AL031228, AL096791, AL136295, AL109914, AL022165, AC007664, Z84466, AC004797, AL024507, AP000689, AC007052, AC008018, AC005081, AP000043, AP000111, AC004655, AC007421, AL022329, Z84487, Z84469, U95742, AL031281, AC005529, AC002425, AF109907, AC004526, AC005482, AL031657, AL022721, AP000694, AC005412, AC005972, Z82244, AC007216, AC008154, AC006501, AL121658, Z98304, AB023050, AC006121, AC004491, AC006001, AC005089, AP000152, AC002477, AC002400, AP000140, AC005338, AC006006, AP000511, AC005670, U91318, Z73358, AC007637, AC007055, AL008582, AL035086, Z93023, AC016027, AC005082, AL080243, AC004253, AC016830, AC002472, AF031078, AP000011, AC000088, AF030876, AC005901, AC009516, AF129756, AL109984, AC004821, AL133244, AP000353, AF196779, Z85996, AL050341, AC004887, AC006531, AC004805, U95740, AC007546, AL023575, AP000116, AC000025, AC004854, AL080317, AC000052, AL133243, AC007546, AL022327, AC004019, AL031311, AC005088, AL139054, AC008009, AC006277, AL049779, Z82176, AL049694, AF196969, AC000090, AL031284, AL031666, AC007684, AC007298, AC005037, AC003108, AC005921, AP000114, Z92546, AL034421, AC005288, Z83846, AC005841, AC006449, AF091512, AL021918, AL133246, AC006509, AC004656, AL008715, AC007371, AL021920, AP000512, AC009405, AP000514, AF024534, AC016025, AL049832, AC005740, AL031733, AC005751, AL121595, AC006946, Z95152, AC006014, AC007057, AP001053, AC002070, Z98751, AC005971, AL031055, AP000240, AC005209, AL031120, AC006011, AC005488, AL121769, AP000008, U47924, AC005880, AF064861, Z83844, U96409, AP000552, AL035458, AL031683, AC004590, AL110502, AL031681, AC004955, AC004816, AC002347, AC009248, AC004622, AC005306, AC006236, AJ003147, AC007384, AC004148, Z98884, AC006120, AC007406, and AC005913.
HMSBN71	3293	1 - 227	15 - 241	
HMSBO55	3294	1 - 135	15 - 149	AI579937, N47104, AA805339, AA768366, AI078743, AC005774, and Z93019.
HMSBP46	3295	1 - 127	15 - 141	
HMSBP80	3296	1 - 373	15 - 387	
HMSBQ93	3297	1 - 406	15 - 420	
HMSBS51	3298	1 - 348	15 - 362	
HMSBS63	3299	1 - 440	15 - 454	
HMSBS86	3300	1 - 533	15 - 547	AL121998, D83253, Z70689, and Z97054.

HMSBU22	3301	677327	1 - 230	15 - 244	AW117257.
HMSBU68	3302	709231	1 - 295	15 - 309	
HMSBV28	3303	970579	1 - 429	15 - 443	R94422.
HMSBX38	3304	761392	1 - 467	15 - 481	
HMSBX59	3305	558203	1 - 291	15 - 305	AI621141, AA640155, AA569180, AA376315, AI922061, AA664366, AI052560, AA501775, AA280232, AA055576, AA258511, AA487808, AI940701, AI820994, AA593381, AA180278, AW238615, T03028, AA641592, AA601152, AA720812, D59168, T62761, AI132952, T85549, T47477, T47541, N62150, AA353087, R90980, AI800268, AA780549, AA584099, AA225638, N32456, H54464, T03216, H13261, AL117339, AF205588, AL022345, U82828, AL049710, AC005386, AC005018, AF049895, AP000146, AL022576, AC007488, AL121877, AC008929, AC007380, AC004075, AL023581, AC002412, Z82212, AC005297, AC004677, AC005341, AL096827, Z99571, AC004855, AC007567, AC004158, AL022310, Z93019, AC002429, AF172277, AL110505, Z82211, AF003529, AC016046, AC007514, Z83745, AC006481, AL136297, AL022394, U82696, AL117351, AC005076, AL030996, AC000114, AL049844, AL050339, Z92844, AL008722, AC006462, AL049589, AC004470, AC003106, AL080248, U69730, AC002070, AC000378, Z71187, AL022154, AC008169, AC004842, Z98255, AC006946, AC066548, AC009802, AL049743, AC006313, AL050309, AP000083, AC004029, AP000692, AC005378, AC002564, Z74477, AC002463, AC004908, AC002449, AL049778, AC004083, AC004049, AL022101, AL121782, AL121654, AC002454, AL133247, AF070718, AL009047, AC006152, AC011198, AC006070, AC007317, AP000476, AC004047, U66059, AC007243, AC007065, AL109628, AC004161, AL079334, AC000056, AC004451, AC005064, AC004823, Z77249, U72789, AL009028, AC003099, AC003658, AL034370, AC006979, L11910, AC006461, AL031665, AL035252, Z95124, AL080239, AC005201, AL031286, AL031652, AL121757, AC000119, AL133500, AL049838, AC006043, AL031671, AL078588, AL022157, Z82205, AC002524, AC007286, AC005273, AC007032, AC016831, AC005352, AL049696, AC007159, AC006356, U96409, AP000460, AC009308, AC005588, AL023875, AL049734, AC007239, AC006427, AC006840, Z70274, Z71182, Z82210, AC005588, AL023875, AL049734, AC007239, AL035563, AL121823, AC005873, AC006249, AC005034, AC002994, Z82215, AL022150, AL031114, Z69649, AF109076, AC004613, AC004894, AC005516, AC003037, AC006040, AL049874, AC004917, AL009173, Z68280, AL031679, AC006455, AC004067, AP000457, AC005050, AC005019, AC006952, AL035698, AJ239329, AC005498, AC002040, AL136520, AC003973, AC004384, AC005593, AC003676, AC002488, AP000547, AL035258, AL035688, AL121871, AC004615, AL034410, AC005739, AL050334, AC005900, AC004617, AL022401, AL096803, AB014078, AC006139, AC007007, AC004959, AC000055, AP000514, AL049634, AL031663, AL033521, AL049557, and AL109941.
HMSBZ69	3306	866997	1 - 757	15 - 771	AA699358, R94584, and AF093097.
HMSCA33	3307	702821	1 - 413	15 - 427	H16746, AI989391, AI651717, AI080151, AA573388, AA927298, AA830295, AA805889,

HMSCB10	3308	1 - 191	15 - 205	Z41058, AI864771, and AA729846.
HMSCD14	3309	1 - 145	15 - 159	
HMSCD15	3310	1 - 1223	15 - 1237	AA828277, AI707568, AI333720, W33154, AI880870, AA848014, AA864599, N50622, AW087770, AW270419, AA761244, AA262754, AA779760, AI880826, AW407353, W37119, AA206843, Z42584, AA206842, and AB011126.
HMSCD45	3311	1 - 316	15 - 330	
HMSCE07	3312	1 - 430	15 - 444	AB017652.
HMSCE37	3313	1 - 344	15 - 358	AW276877, AI310873, AA359994, AA074342, AI345366, AW190781, AA243530, AA346466, AW438765, AA811208, AI909706, AW082470, AW274078, AA837708, AA527602, AA599558, AL135262, N58329, AA804995, M77893, N71033, AA630854, AA527727, AA908331, N26617, AA372305, AA452325, N72307, AA630145, AA601630, AA654661, AI750865, AL134278, AA804466, AI628303, AI679540, AA427470, AI679978, AI675933, AI540851, AA468223, AL031277, AC007327, AF196972, AC003009, AL022313, AC006023, AL008725, AL031846, Z93244, AC006312, AP000513, AL022316, AC007546, AL139054, AC006537, AL133245, AL080243, AL022143, AL031120, AC004598, AC006344, AL034423, Z84486, AC005821, AC005154, AL022336, AC005668, AL023284, AC005546, AL009172, AC005619, AC000379, U95090, AC004821, U08988, AC004913, AP000500, AL109798, AL022476, AL035251, D86998, AC006130, AL020995, AC005042, AC007011, AP000553, AL031681, AC005539, AC009263, AL023575, AL049759, AL035494, AL035090, AC003077, AF165176, U95740, AF008191, Z73359, AC005971, U85195, AL031659, AC004185, AC006047, AC007707, AL023807, AC005179, AF045555, AE000658, AC005175, AC002044, AC007277, AC002312, AL031597, AC009247, AB023051, AC006571, AB023049, AC008101, AL117330, AL121825, AC002563, AL034400, AF139813, AC002288, AC004743, AC006505, AP000030, U91326, AL132708, AC005399, AC004858, AC004152, AC002544, AC002126, AP001053, AC010205, U66698, AB014540, AL023315, AC005081, AC005778, AL049757, Z95115, AC000094, AC005695, AC004560, AF106564, AC005777, AF109907, AC005968, AC005933, AP000509, Z99297, AC007192, AC002316, AL050350, AP000512, AC004234, AC006211, AL023803, AC004583, AC004526, AC001231, AC004885, Z95116, AC006466, AC004491, AC006450, AC005537, AC016025, AC004131, AP000295, AC004106, AC007845, AC002350, AL031985, AL109758, M89651, AF181449, AC005874, AF134471, AC005089, AP000501, Z99127, AC004933, AC007227, AL031290, AC002365, AL096701, AL035405, AC002996, AL034420, X87579, AC004662, AL050307, AP000098, AC005800, AC005379, AC007243, AL031273, AC005542, AL024498, D84394, and AC004659.
HMSCF41	3314	1 - 761	15 - 775	AI523579.
HMSCF54	3315	1 - 354	15 - 368	
HMSCF58	3316	1 - 73	15 - 87	

HMSCI26	3317	530239	1 - 651	15 - 665	AP000334, and AP000173.
HMSCK06	3318	960601	1 - 376	15 - 390	AI610751, AL096706, AC005256, AC005214, AC005145, AL133448, AC005354, AP000533, AC007435, AC005321, AL096774, AC002477, AC005682, AC002314, AL049843, AC002367, Z95152, and AL034369.
HMSCK17	3319	717703	1 - 484	15 - 498	Z82195, AF067787, AF067788, AC004257, and AC006511.
HMSCK38	3320	967576	1 - 650	15 - 664	AA527731, AI821508, AA532420, and N52655.
HMSCL01	3321	921754	1 - 352	15 - 366	AC004765.
HMSCM10	3322	926836	1 - 802	15 - 816	AL121748.
HMSCM95	3323	884019	1 - 295	15 - 309	AP000496.
HMSCO18	3324	917009	1 - 439	15 - 453	T93243, and AL033518.
HMSCO39	3325	709592	1 - 284	15 - 298	
HMSCO60	3326	739685	1 - 384	15 - 398	
HMSCO70	3327	879436	1 - 356	15 - 370	AA018611, AA634223, T99365, AA613954, AI537407, Z98051, AL022320, AL022476, AC006241, AP000556, AC005089, AC000039, AL049694, AC007421, AC004887, AP000045, AC005015, AC004099, AP000557, AP000501, AF064861, AC005081, AC002310, AF047825, AC004841, AC007686, AC007124, AC005971, AC005412, AP000113, AC004854, AL031657, AC005082, AC005527, U91321, AL035422, AC004815, AL050324, AC007868, AL133353, AF134726, AC004263, AC007541, AL022322, AC003982, AC007707, AC005837, AF196969, AL109984, AL121603, AF088219, AF053356, AC005220, AC005702, Z83844, AF038458, AC009247, AC005529, AC005520, U78027, AC006505, AF030876, AE000658, AF031075, AC006130, AC003030, AC005914, AP000300, AL033525, AC003108, AJ229041, AL031846, AC004797, AC005666, AC005207, AP000502, AC006112, AL031273, and AC005409.
HMSCR39	3328	601504	1 - 593	15 - 607	AL138265, AL040921, AL038705, AI038705, AI872227, AII49478, AW406447, AL046205, AL042853, AA515829, AI801482, AW327868, AI281881, AI334443, AW270270, AI924251, AL045053, AA610491, AI133164, AL045526, AI963720, AA210852, AI679782, AL046409, AA469451, AW162049, AW406755, F36273, AI929531, AL120687, AI811687, AI345675, AI358229, AI284640, AI683577, AW276817, AW193265, AW088202, AL044858, AW021583, AI431303, AI904894, C06327, AI962050, AI148277, AW088224, AA526787, AI049722, AA581903, AI339850, AL038785, AI708009, AI350211, C05755, AI608771, AI365988, AA649642, AW088058, AI613280, AW162489, AA587604, AI471534, AA178953, AI345681, AA192740, AI471543, AA468131, AI053672, AW438643, AW338086, AI287651, F29989, AI192631, AI341664, AI053790, AA134367, AI281903, AI254615, AI289067, AI918421, AI061334, AA661948, AI917271, AA613227, AA577906, AL119691, AI619997, AI307201, AI471481, AA521323, AI305547, AA826303, AI345654, AA652057, C75026, AI745325, AI744995, AA523810, AL038474, AII98376, AW439558, AA501784, AI754658, AI358571, AI053606, AW072587, AL033725, AA533725, AI589230, AA631507, AI279165, AI005388, AW265009, AI623720,

HMSCR82	3329	806176	1 - 251	15 - 265	AW193432, AA127916, AI375710, AA679124, AL042420, AA483771, AI821714, AI792133, AI791913, F32808, AA521399, AA720702, AW339687, AI085719, AW062724, AA594145, AI160117, AA177061, AA523815, AC005694, AC008372, AC005529, AC006254, AC005527, AC006120, AC005932, AC005274, AC006141, AL020995, AC004477, AC007221, Z83826, AC005280, Z95704, AC007664, AC007666, AL031311, AC006285, AC005288, AC012627, AC005722, AC002470, AL096701, AC005409, AC000052, AC004531, D84394, AL121754, U85195, Z94721, AL050306, AL078593, AC005821, AC006511, AL136295, AC006312, AC006077, AC007686, AE000658, U15177, AL049795, AL109628, AL035079, AC006960, AC004854, Z83840, AC005914, AC005566, AL049776, AP000359, Z93930, AC004832, AC007541, AC004796, AC005212, AC009247, AC004878, AC004797, AP000961, AL008629, AC005089, U91322, AC007226, AJ246003, AL050312, AC002350, AL021394, AC004848, AP000302, AL022237, AC005915, AL049569, AL008582, AL033525, AL021877, AL109801, AL022311, AC005772, AF030876, AJ006998, AC006064, AC005829, AL122020, AL133448, AC004841, AP000513, AL031848, AC006116, Z98036, AFI11168, AC005874, AFI34471, AC004821, AD000092, AC002430, AC007546, AC005695, AL133246, AL139054, AL121653, AF020803, AL023284, AL035420, AF088219, AC006101, AC004263, AL034429, AL109627, U95742, AF031078, AC006450, AC005913, AC007917, AL049780, AC007384, AC007536, AC005081, AC004999, AC005696, AC002400, AL031284, AC009516, AL022721, AC003664, AC005553, AL049745, AC004887, AP000504, Z98051, AC005180, AP000114, AP000046, AL034423, AL022163, AF129756, AC006111, AL109758, AL049743, AC007064, AC007055, AP000555, AC005520, AP000552, AC005666, AL021707, AC005703, AC006449, Z97632, AC005037, AC006026, AC007919, AL021939, AL096791, AC004605, AC005519, AP000558, AC004526, AC006480, AL022323, AC003689, AC004019, AC004972, AB001523, AC005839, AC005902, AP000952, AP000045, AF165926, AC005231, AC000025, AC005899, AC006012, AC004139, AF001549, Z97054, AC020663, AF053356, AC002347, AC004771, AL050331, AC005911, Z98200, AC007051, AL034417, AL008718, Z93241, AC005516, AC007388, AF196779, AC006441, AL021453, AC002395, AC005331, AC007845, AC005291, AP001172, AC005256, AP000553, AL110502, AC005295, AC005663, AC007688, AC003690, AC006130, AC007052, AJ003147, AL022326, AC007559, Z98950, AC005632, AL133245, AL031283, Z75741, AC004814, AC005372, AC016026, AL031005, AC003043, U66059, AC005562, AC007216, AL031295, AC007731, Z85986, AC003029, AL031286, AP000115, AL121934, AC005701, AC006251, AC007242, AC005971, AC005500, AC005257, Z74739, AL031577, AC005084, AC005901, AC004970, U95090, AL049636, and AC005065.
HMSCU35	3330	725513	1 - 676	15 - 690	AA179771, AA740885, AL042323, and AI017333.
HMSCY29	3331	703105	1 - 345	15 - 359	AI792820, and AI792471.

HMSCY91	3332	789306	1 - 420	15 - 434	
HMSCZ51	3333	724839	1 - 187	15 - 201	AI052366.
HMSDA03	3334	881563	1 - 508	15 - 522	
HMSDB74	3335	765933	1 - 327	15 - 341	
HMSDD80	3336	503967	1 - 910	15 - 924	N39672, R92235, AI248707, AA682815, AL119721, T91429, T91341, M85784, AA505009, AL045445, W90432, N30473, D79995, AC004495, and AC007151.
HMSDF01	3337	921672	1 - 303	15 - 317	
HMSDG77	3338	708078	1 - 340	15 - 354	AC004841, and AL031255.
HMSDK32	3339	416928	1 - 252	15 - 266	
HMSDM29	3340	703075	1 - 176	15 - 190	Z93784.
HMSDP23	3341	583670	1 - 485	15 - 499	H59931, H67432, AC005154, AC009784, AC003100, AC003034, AL022154, Z70280, AC003072, and AC006998.
HMSDQ33	3342	702772	1 - 368	15 - 382	T41354, AC006123, and AC003107.
HMSDR06	3343	954682	1 - 272	15 - 286	AL020995.
HMSDR55	3344	732443	1 - 335	15 - 349	
HMSDU43	3345	868183	1 - 303	15 - 317	AI243681, AA620742, AA906977, AA610037, and T04923.
HMSDU73	3346	753010	1 - 136	15 - 150	AF053755, and AF047033.
HMSDV49	3347	722194	1 - 343	15 - 357	
HMSEG37	3348	708656	1 - 202	15 - 216	Z41951, and AW295173.
HMSEM59	3349	708076	1 - 63	15 - 77	
HMSEM80	3350	718087	1 - 305	15 - 319	
HMSEO23	3351	676369	1 - 394	15 - 408	
HMSEU01	3352	921628	1 - 365	15 - 379	
HMSFH05	3353	932219	1 - 414	15 - 428	
HMSFH21	3354	671133	1 - 333	15 - 347	AL078463.
HMSFH24	3355	855826	1 - 259	15 - 273	
HMSFH27	3356	682204	1 - 339	15 - 353	AA180174, AA283603, AA304829, AA233827, and AF115509.
HMSFH29	3357	689857	1 - 229	15 - 243	
HMSFH31	3358	583757	1 - 866	15 - 880	AI174683, AI174796, N58549, AI523111, AA585278, AA585439, AA585430, AA585389, AA585378, AI526112, AA585325, AA585329, AA283312, AA585453, AA585116, AI525306, AA585327, T26367, T48593, AW366296, AA585351, AI557238, AI525656, AL122127, Z49918, AL109759, AC003084, AC006975, AL035467, AP000432, AF118808, AC002368, AL049545, AL132994, AC004756, Z98200, AL136363, AL132708, and AL133233.
HMSFH34	3359	706349	1 - 319	15 - 333	
HMSFH39	3360	705586	1 - 344	15 - 358	AA131265.
HMSFH59	3361	739415	1 - 355	15 - 369	

HMSFH73	3362	764554	1 - 187	15 - 201	
HMSFH79	3363	775318	1 - 206	15 - 220	
HMSFH83	3364	780301	1 - 520	15 - 534	
HMSFK32	3365	671136	1 - 227	15 - 241	
HMSFL10	3366	968061	1 - 331	15 - 345	AC008062.
HMSFL41	3367	934139	1 - 485	15 - 499	Z45369, and AC004752.
HMSFL49	3368	683406	1 - 287	15 - 301	
HMSFN48	3369	697991	1 - 473	15 - 487	
HMSFQ48	3370	721795	1 - 596	15 - 610	AW083053, AI457313, AI634187, AW069227, AA365893, AA303054, AI744830, AI753365, H68343, AI301475, AI926233, AI275183, R89081, AA747234, AA018231, AA904211, AC006449, AE000658, AC004854, Z83840, AC007227, AC005874, AF134471, AC005046, AC007666, AC005837, AL022312, AL022328, AC005089, AC005071, AC005377, AB023049, AC006011, AL049779, AC004232, AL024498, AC004593, AC004216, Z84469, U96629, AC006057, Z83822, AC005962, AC004859, AR036572, U91328, AL050307, AC006965, AC004876, AC007388, AL022476, AL121653, AL031594, AC007226, AL078477, AL031311, AC005363, AL031589, AC005777, AC004893, AC003108, Z82215, AL023799, AC006285, AL031056, AC007537, AL034420, AC005921, AC005696, AC002400, AC004821, AL024507, AC005231, AP000692, AC005015, AC003982, AL117354, AL035458, AC011311, AC002302, AC005102, Z93023, AC003957, AC010197, AL049830, AC007637, AL031295, AC005529, AC004858, AC006160, AL033527, AC002527, Z85986, AL031985, AC006039, AC005081, AL096701, AC004099, AP000252, AC002527, Z85986, AL031985, AC006039, AC005081, AL096701, AC004099, AC005746, AC008044, AC005726, AC002126, Z95116, AL031427, Z83838, AL049759, AC002542, AC004019, Z85987, AL050318, AC002115, AP000501, AP000359, AP000212, AP000134, AC005037, AC002369, AL009181, Z99943, AL035405, AC000052, AC005383, AB023048, AC000039, Z98051, AC003010, L78833, AC004832, AL034376, AF001552, AC005399, AL009172, AL109952, U85195, AC005722, AL035587, AF111167, AC004491, AC004799, AC005740, AC005412, AC004148, Z84466, AL034429, AL049569, AC005914, AL096774, AL022313, AC007216, AL109798, AC006515, AL078638, Z97630, AC005933, AC005048, AC002549, AC006088, AF038458, AL031662, AL049776, AP001053, AP000088, AF024533, Z83826, AC052215, Z98752, Z83845, AF030453, Z82202, AC004032, AC000105, AL022336, AL031670, AP000553, AC005568, AC005520, Z92542, AC002997, AC004975, AC006480, Z93783, AC007011, AL023575, AL035410, AC004852, AL121769, AP000113, AC004531, AL080243, AC016831, AC006946, L78810, AL031595, AC005067, AL109758, AC005225, AF064861, and AC004106.
HMSFQ69	3371	657538	1 - 445	15 - 459	AW026161.
HMSFR29	3372	693440	1 - 151	15 - 165	AA552587, AC006296, and AC005841.
HMSFR69	3373	738588	1 - 255	15 - 269	AW081383, AI799195, AI680498, AI345677, AI358213, AI866770, AI357599, AI249946,

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HMSFR71	3374	760517	1 - 199	15 - 213	AF111112, AF067790, AF119337, AF012536, A65340, I89944, E05822, AF215669, AL049460, AL122106, AF143957, AL137574, X59414, AL080137, AL137705, AL133619, AC006371, AL137300, L19437, AF067728, AF065135, AF132676, AL080154, AF162782, AF061836, AL122111, AF000301, AL133075, U78525, D83989, I41145, AF162270, AF028823, A76337, AL080162, AF199027, U49434, A21101, A23630, A58524, A58523, Y08769, AR000496, U39656, AF000145, M92439, U49908, A17115, A18079, AC004686, AR068753, AL137556, U92068, AR019470, AF115392, AF061795, AF151685, AL133016, AL137495, X72387, I48979, AC004987, X81464, X63410, AL080060, E03348, A57389, S78453, AL049464, AFI13689, AL137526, X66862, AL080159, E03349, AL049382, AF030165, AL117626, U58996, L30117, AR038969, AL137538, AR059958, AF109155, U42031, U96683, AL050149, AL137712, X54971, AF205861, AL137558, AL117440, AL137547, AF061981, S68736, AF180525, AL137273, AR054987, AF104032, X99226, AL050366, X53587, E08263, E08264, AF113013, AL035407, AC005992, AL110159, A08915, AL117648, AR068751, AL137429, Y16258, AF114170, AL122049, Y16257, E02756, Y16256, A86558, X56039, I09360, AL133093, U57715, AB025103, AB007812, AF017152, AL110221, AL133062, AL137256, I66342, AL133077, AL137660, AF081571, A51774, AL137527, AL137294, AL050393, AL137555, E02221, E01614, E13364, X62773, AL122121, A93016, A15345, Y11254, AF089818, A76335, AC007390, I92592, I29004, E12579, E12580, Y10823, AL050277, AF113699, AL137560, AF107847, AF183393, A27171, AL117394, AL110224, AL137463, AF013214, X98066, AF113019, AL133067, AL049339, I22272, AL080124, AL137554, E04233, AL137478, X62580, I33392, AL133640, X80340, AL137271, AL049938, A65341, E04233, AL137478, X62580, I33392, AL133640, X80340, AL137271, Z82022, and AL137554.
HMSFR92	3375	861344	1 - 567	15 - 581	AL035427.
HMSFS59	3376	739420	1 - 422	15 - 436	AC006157.
HMSFS69	3377	757687	1 - 336	15 - 350	T47867, R76479, T49436, F06560, AA715949, AI927261, AI453160, AI564294, AA668475, AA632765, AW081324, AI471467, AW007424, AI819391, AI823533, AI823535, H40478, AA226770, AA515551, R99418, AA748102, AI356264, AW028834, AA017174, AA019068, AI891075, AW058223, W04439, AA046440, AA854460, W56799, AI289916, AA467774, R67093, AA702717, AA719523, R45580, AI801505, AA749029, AA469441, R35259, AL041895, AL040717, AL049274, AC004520, AC004466, AC005200, Z82215, M30688, AL022337, Z97635, AC005190, X54486, AC000402, AC004653, AC002102, AC005353, AC004100, AC008116, AC000003, AC006965, AC005552, AC006305, AC006333, AC002366, AC006979, AC016027, AC016830, AC005256, AC004955, AC002059, AC004491, M13792, AC005483, AC002378, AL031114, AL031281, AC005225, Z84485, AC002472, AL049779, AC007226, AC006141, AC002554, Z68884, Z99754, Z70281, AC004652, AC004678, AC003048, AC004202, AC005360, AC005796, AC000091,

HMSFT23	3378	855812	1 - 399	15 - 413	AL034582, AF002994, AP000300, AC002094, AL023694, Z98046, AL008712, AC008078, Y07848, AL132799, AC003688, AC005773, AP000068, AP000113, AP000045, AL031622, AC004736, AC005153, AC000026, AL050350, AC007279, AL050318, AL109753, AC003071, AC007189, AP000356, Z82189, AC005409, AF123462, AC005040, AC005531, AL031009, AL117391, AC002390, AF190641, AP000091, AL122021, AC005215, AC004408, AC004883, AF107257, AC005684, AP000236, AL031313, AL049709, AC007051, AC007240, AL096770, AC005046, AC005081, AC002470, AC005620, and AF017104.
HMSFT52	3379	727302	1 - 489	15 - 503	R07137, AI761762, AB028943, AP000556, and AP000557.
HMSFT73	3380	761647	1 - 323	15 - 337	
HMSFW13	3381	917020	1 - 309	15 - 323	AI022165.
HMSFX01	3382	917021	1 - 496	15 - 510	H53374, and R99274.
HMSFX08	3383	959784	1 - 290	15 - 304	AA486810, R46108, R37254, R41969, R42367, H12053, AL044613, H16581, AA737346, AA223170, AA342459, H05040, AI923052, AI963688, AA676473, AA665525, AA653300, AA737106, AI279048, AL120481, AA551181, F04207, AA715850, AA485699, F10966, AI91391, H98096, AI243847, H66037, AA345064, AW088581, AA370455, AI754293, AW247392, AA827231, AA651833, H12383, H51061, AI267269, AA991914, AA701080, F04926, AA773740, N74747, AA618080, H71863, AA055784, AL031595, AL117440, AB016194, AL009172, AC007971, AF129756, AC006539, Z98051, AC005531, AL109628, AC005229, AL121655, AC006059, AP000140, AL049589, AP000088, AC006536, AL022476, AC005102, AC006238, AL035695, D87675, AC006530, AC006211, AC007686, AB020864, AC007684, AP000257, AC005520, AC005899, Z69722, AL022238, AC016027, AC000379, AC004859, AC016830, AC002312, AC005730, AF205588, AC002991, AC003963, AC007226, AF111169, AC005488, AF196969, AL022323, AP000098, AL035659, AL035450, AF059675, AC003098, AC007386, AC002425, AC004408, AC002430, AC004381, AC007384, AP000111, AP000043, AC000085, AC007216, AL109656, U82828, AC006011, AF111168, AC005037, Z83838, AC005988, AL049545, AC006449, AC007537, AF126403, Z82976, AL035249, AC005800, AC004996, Z74617, AC006023, AC004000, AC006213, U29895, AL096701, AC002303, U95742, AC004797, AJ011930, AC004024, AC005527, AC007114, AC004590, AL035106, AC005074, AP000459, AC004815, AF165926, AC006487, AL034555, AF001550, AC005846, AL034419, AC000070, AL109865, AP000354, AC009178, AL117258, AC005940, AC002128, AC007024, Z93017, AC006014, AC005399, AC007308, Z94801, AC004991, AL049632, AF134726, AC006478, AC004778, AL080241, AC000159, AL049646, AC007546, AC006120, AC005529, Z83845, Z85986, AC005391, AC007406, Z82194, AC007227, AC005746, L78810, AC002350, AL022237, AL021366, AL049795, AC004787, AF059650, U91318, AL023575, AC000073, AC007199, AC005544, AC005082, AL009031, AC005409, AC000094, AC002326, AL035079, Z94161, AL031295, AC006323, AC004813, and Z94721.

HMSFY49	3384	574906	1 - 386	15 - 400	
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HMSFY70	3385	757338	1 - 336	15 - 350	
HMSFZ04	3386	615473	1 - 201	15 - 215	
HMSGA34	3387	706355	1 - 209	15 - 223	AA623002, H48636, AA774184, AA678499, AA158301, H86860, W85752, AA653964, T53128, AA630925, AA601355, AL046457, AA483223, R84309, W16581, R92288, R84303, AL079935, R84296, R67365, AA602528, W80462, AA584749, AI305766, AA568778, H02477, H86097, AA577906, AI613280, N70442, AW193432, AI002796, AA342914, AA643456, AA858197, AA644538, AA059472, AA678436, AI469172, AA136122, AA053551, AA810370, AA524838, AA906889, AI284640, AI270343, AA829405, AA824654, AA641989, AA824655, AL110444, M78177, N23653, H11124, H64778, F23279, AA490183, AA626678, T10560, AA533450, AA513972, AI865364, AA365347, AI610159, AA834755, H02877, AW074398, AA167643, AA633094, R83443, AI758582, AA834297, AA664535, F31204, AA280632, AI824562, AA664015, AA357937, AA743956, AA828856, AL133723, AA574110, AI688846, AA437161, AA158328, AW261871, AI270117, F18974, AI049634, F25203, AW193265, AA515128, AA723017, AI350211, AI923140, AI567786, T48649, AI061334, AI246409, AI282907, F36273, AI889781, AI431303, AI608674, AA457639, AI471481, AA581342, AI814735, AA745410, H49061, Z98473, AW276827, AI375710, Z82214, AL078640, AL035495, AL024507, AC004931, AC000396, AC005250, AC006211, Z92844, AC004237, AC007227, AL109985, AL096701, AC006327, AP000115, AC003686, AL078621, AC007541, AC004227, AC004833, AL031848, AC009223, Z81369, AL079295, AL008629, AC004761, AC005703, AC008038, AC007751, AF117829, AL117258, AC005696, AC005412, AC004685, AP000477, AL031650, AL096861, AL035681, AC006960, AC004895, AC007528, AL008723, AC007731, AC005500, AC009891, AC007437, AC004690, AC007632, AL121603, AL008583, AC007770, AL031178, AC007450, AC006538, AC002531, Z85987, AL049550, AP000402, AL096770, AL031178, AC007450, AC006538, AC002531, Z85987, AL035467, AC000066, AC003695, X60152, AC006196, Z97206, AL023803, AC004070, Z84467,

HMSGA41	3388	712490	1 - 530	15 - 544	AL035417, AL031577, AL096769, AL050308, AC002422, AL078604, AC005879, AC007225, AC004041, AP000431, AR036572, U91328, AL022318, AC002347, AJ010770, AC007684, AC005358, AJ246003, AP000548, Z97352, AP000302, AP001059, AC004771, AP000114, AP000046, AL031295, AL049557, U91322, AC004104, AC007536, L43392, AC007687, AC005912, AL022721, AC005084, AL109627, AC005043, AC006006, Z69666, AC008173, AC005041, AL033525, AF152365, AC005274, AC008249, AC004583, AC004814, AC005377, AC004960, AC002542, AL121658, AC005837, AC007277, Z98043, AL031588, AC005295, AC007245, AC005191, AC000100, AC002395, AL031591, AC006925, AP000350, Z97987, AL033521, AC002509, I17291, X83604, AC008040, AC004019, AF001550, AL021918, L13709, L13713, AL031732, L13714, X62025, AC006353, AC002041, AC007686, AC004381, AL031447, AC006195, AL135879, AL121790, U91321, AC004386, AC007564, AC002091, AC005971, AF109907, Z99716, AL031407, AC005755, AC003119, AC021092, AL049761, AC009516, AL031053, Z98051, AC007447, AC006026, Z83313, AC004745, AB020866, AC007666, AC000052, AF130248, AC000004, AC006468, AL020995, Z82900, AC004152, AL135744, AJ006996, and AP001172.
HMSGB07	3389	953715	1 - 332	15 - 346	
HMSGC69	3390	757337	1 - 340	15 - 354	AA455432, and AA455959.
HMSGC76	3391	767661	1 - 345	15 - 359	AA983767.
HMSGD02	3392	920525	1 - 430	15 - 444	
HMSGD15	3393	959468	1 - 409	15 - 423	AI889995, AA469230, AI587583, AI587565, AI609992, H62123, AI791659, AI609984, AW410409, AW022796, AA857296, AA468923, AI610012, AI866911, AA935827, AI609974, AI003086, AI821605, AI345566, AA480486, AL041375, AI224583, AI590404, AA135761, AW238341, AI733523, AI453155, AI547110, AW020150, AI521525, AI065031, AA507814, AA676592, AA831714, AW341903, AA425283, AI857834, AI560866, Z99348, AA218684, AA182928, AA720582, AI254267, AA557945, AA804726, AI123488, N94115, AW169038, AI890297, AW338376, AW404543, AA171400, F23338, AA226356, AI095197, AA595661, AL134278, AA679946, AW020094, AW302320, AL042667, AL042670, AA584489, AW149241, AI040051, AA084320, AW008217, AI926102, AL120282, AW021399, AI567676, AA601376, AI679730, AL044339, AI044701, AI800426, AA493546, AA554289, AA324559, AI369076, AA197089, AI282488, AI572680, AA493546, AA554289, AW157128, AA324108, AA676462, AI754653, AA551519, AI053518, AW072963, AI826857, AA807704, AI279417, AA618531, Z95114, AL023575, AC004812, AL049569, AC004678, Z82215, AL035422, Z95115, U78027, AL034549, AL035249, AC007207, AC007685, AL021808, AL031291, AC005154, AF047825, AC002326, AL121603, AC005484, Z84469, AC005399, AL109627, AC006449, AL009031, AL022318, U91323, AC008372, AC008044, AC005013, AP000065, AP000692, AL031311, AC004972, AL022721, AC005841, AC005013, AP000065, AC003108, AP000048,

					Accession numbers
HMSGH49	3394	712123	1 - 530	15 - 544	AL022316, AL135960, AJ131016, AC007376, AC007041, AL096791, AC007226, AL031300, AC000095, AC006487, AC009464, AC003006, AL139054, AL034548, AL031735, AC004263, AL022302, AL109963, AC005971, AC006285, U91321, AC007371, Z93244, AC002477, AC007731, AC005500, AC007136, AC003043, AC006064, AF001548, AC004491, AC010205, AL122020, AC006241, AC006312, AC016025, AC006213, Z99128, AC005231, Z98051, AF111168, Y10196, AL096701, AL080243, AC006121, AC007546, Z93023, AC005356, Z95116, U47924, AL034379, AL049775, AP000512, AP000152, AL121754, AL034420, AC009288, AC000120, AC006211, AL049758, AF149773, AC004605, AP000152, AL022311, AD000092, AP000359, AC005288, AC004000, AC003035, L44140, AC005702, AC005921, AL022147, AC004148, AL031277, AF196971, AC005082, AL050348, AF196972, AC003110, AC007707, AC004167, L78833, AC005037, AC004887, Z83840, AC002357, AC007242, AC003962, AP000557, AC005516, AC004408, AC004797, AC004967, AC005755, AC007114, AP000049, AL121825, AC007421, AC005330, AL049872, AP000513, AF200465, AC002480, AL132712, AL021391, AL049874, AC005274, Z96074, AL034417, AC006571, AF053356, AC004686, AL049843, AF134726, AC002045, AB023049, AL121756, AC005612, AC005534, AP000311, AC011311, AC004922, AP000011, AC004447, AL049540, AC007934, AC008126, AC002310, AC005089, AC007055, AL049869, M89651, AC006486, AC005046, AC007283, AL031685, L47234, AL049631, Y14768, AP000501, AC005808, AL121655, AC006011, AC008018, AC006146, AF207550, AC004895, AC004383, AC007637, AC002038, AC005529, AB000882, AC003098, AL133312, AP000688, AC003101, AC005071, AC000064, AC007308, AF001552, AC005911, AC004149, AL035659, AL121658, U52112, AC002425, AL109952, AL031282, AF064859, U90094, AC005250, AL031848, AC004662, U91322, AC006084, AL049743, U73167, AC002094, AC007537, AL035443, AL133245, AL031295, AC005412, Z99716, AL133448, AL132642, AC006536, Z83838, AC005291, D88268, AC005372, AP000130, AP000208, AC007664, AL009181, AC005527, AC005899, AL031432, AL136295, AL034423, AP000247, D87675, AL133371, AC006160, AC004099, AC005247, AC000026, and AC002394.
HMSGI42	3395	712994	1 - 340	15 - 354	
HMSGK16	3396	861329	1 - 793	15 - 807	T83331.
HMSGK82	3397	778875	1 - 279	15 - 293	
HMSGL27	3398	638097	1 - 1599	15 - 1613	AA287567, AA252404, AW249468, AA547979, AA601218, AA287570, AA569648, AA255853, AI986165, C18751, AA505108, AA126763, AI732430, AI732458, AA127499, AA984187, AA814400, AI917132, AA714224, AA758277, AA085372, AI380617, AI669421, AA714110, AI040051, AL041894, AA610432, AI912401, AW021917, H80203, AI623764, AI923052, AI821044, AI354423, AA515728, AI679413, AI061313, AA604645, AA528390, AW270258, AA582554, AL079734, N32944, AA652868, AI206841, AI783911, AA569667, AA745653, AI962030, AA410788, AI733856, AI244127, AL040054, AW271917, AA579179, AI499954,

| HMSGP45 | 3399 | 699243 | 1 - 428 | 15 - 442 | AI569086, AI862716, AW020088, AI620585, AI885488, AI078409, AA584066, AI561060, AA284247, AL120343, AA828047, AA192293, AI801505, AW157005, AI189682, F24728, AA644090, AA862243, AI669589, AA228778, AA601278, AI335963, AI310343, R92640, AI755214, AA828867, AI754567, AA831345, AI754105, AA643770, AW088049, AA654874, AI809818, AI081147, AA598605, AL121016, AL121653, AL096791, AP000501, AP000011, AC005081, AP000212, AP000134, AC005746, L78810, AL008718, AL022316, AC004112, AC009516, AC005399, AC004883, AL031680, AL031432, AL035400, AC006480, AC006487, AP000552, AC005755, AL021397, AF196972, AC004967, AL008715, AF111168, AP000689, AC006023, AC004019, AC008040, AC004841, AP000030, AC006960, AC006312, AL034549, AL020997, AC005921, AC005725, AL133500, AC005231, U80017, AC007676, AL031228, AL034555, AC005726, AL050318, AC004834, AC002316, AC005412, AC005102, AC004686, AC005696, AC006262, AC006013, AF031078, AC005520, AF196969, AP000350, AC006120, AC007216, AF030876, AC006057, AC000052, AC006211, AL109628, AC004859, AL035659, AC007055, Z85986, AL078638, AC004033, AC004262, AC002492, AL122003, AL035458, AL109798, AF196779, AL022328, Z97054, AC005274, AC002543, AC005722, AL121658, AC005786, AC005620, AC007011, AL080243, AC005874, AF134471, AC004655, AC007773, AP000557, AC004815, AC004832, AL031295, AC005874, AF134471, AC004655, AC004813, AL031681, AC004263, Z86090, AJ003147, AL035422, AC005086, AL133353, AC007919, AC005694, AC005519, AC002425, AC006449, AC005209, Z95152, AL049539, AC000026, AC006511, AL031279, AC002476, AC005500, AC005288, AL035587, AC004000, AC007421, AL049795, AC007731, AC006441, AC007242, AC005058, Y18000, AL049569, AC005800, AC004983, AP000356, AC006277, AC008372, Z84487, AL022319, AC020663, AJ246003, U78027, AC002477, AF001549, AL022313, U89337, AC004685, AF053356, AL096701, AL117694, AL133163, AF134726, AC005480, AC005523, AC003965, AP001053, AF200465, AL031848, AC012384, AP000359, AC007370, AC002314, AC004447, AC005527, AC004813, AL031681, AC004263, AC003982, AC003070, AC002470, AC004887, AC004254, AC005531, AL022320, AC006323, AC003982, AC003070, AC002470, AC004887, AC002310, AC007376, M89651, AC006450, AC005031, AC006077, AC005342, AL049776, AC005952, AP000251, AP000346, AC000081, AC005695, AL031311, AC005940, AC004150, AC007690, AC004386, AC005856, AC000081, AC004477, Z84466, AL024498, AC003957, AC007225, AC005529, AC007285, AC007308, AC004491, AC007999, AL022165, AP000555, AC005736, AC005037, L44140, AC000003, AC004491, AL031005, AC005821, AC007279, Z95116, AC005233, AP000694, AP000511, AC005778, AL031005, AC004185, Z95113, AC005484, AC005763, AC005666, AL109801, AF190465, AP000245, AC004797, AC000353, AL139054, AC004216, U91326, U07563, AC002059, AL031575, AC005291, AC002301, AC005200, AC005057, AP000311, Z98750, AL021977, AL008582, AC004662, AC007386, and AL049766. |

HMSGP49	3400	723131	1 - 376	15 - 390	AI740741, AI435434, AI475908, AA626659, AI802875, AA262760, AI524192, AA279545, AA262840, W45255, AL138162, and AC004490.
HMSGP73	3401	925385	1 - 961	15 - 975	
HMSGQ30	3402	692880	1 - 393	15 - 407	AC007390.
HMSGQ57	3403	733869	1 - 406	15 - 420	AI468586.
HMSGR88	3404	575241	1 - 214	15 - 228	AA070885, AI884861, AI473995, AI073373, AI903464, AA078184, T39390, AI903448, AA578626, AA525407, AI207476, AA584208, AA313133, AI143653, C14576, AI869786, AI289396, AI921491, AA713705, AA513189, C15336, AA078137, AA525517, AA173166, AW081857, N34258, AA347653, R48980, AA584484, AI570380, AA247731, AA304790, AA961966, AW238639, C15180, AA628740, AI049630, AA373861, AA322542, AA078509, AA295893, AA533660, AA295899, AA633799, AL036665, AA633981, AA565232, AA633875, AA666066, F03907, AA601653, AA736713, AA513916, AW327555, AA492524, AI889426, AA493628, AL045423, C15362, AA402113, T49133, AI468993, AA229030, Z36248, T39420, AA084950, AA468923, AL036070, AW438993, AI866971, AL134664, H92398, T06876, AA714190, AA314338, AI431513, AA133013, W52705, AI733856, AA985145, W59977, AA744095, H92613, AA713735, F35684, AI863246, T08386, AA363003, AI338575, F10822, AA308598, F30497, AI624038, AA569206, T07225, AA757758, AI065043, AA302557, AW128881, AI188049, AI590404, AA115655, T03928, AA206366, AA181917, T72631, AI223968, R49266, AI654658, W44359, T64928, H74324, AI679221, AI281401, AI479806, T30418, AW105463, AA683091, AA350406, AW337805, AI85906, H69517, AA728911, AI612810, AC008125, AC004887, D87012, AC011331, AC005551, AL035659, AC002091, AC005015, AL031651, AC003962, AC002326, AL023575, AC006963, AC002364, AC004687, Z98036, AC004703, AC005865, AC004859, AL049569, AC004131, AC005280, Z99716, AF048727, AL133289, AC004383, AC007308, AL049548, AC004891, AC006043, AL021393, AC005081, AL133448, AC004832, AC006000, AC012099, AL035249, AP000303, AL035072, AP000049, AP000116, AP000114, AP000046, AP000311, AL009031, AC003682, U62317, AC007011, AC007421, AL031663, AC005005, AC007993, AC006160, AC004778, AL031664, AC004844, AC005089, AC002563, Z81365, AC002303, AC005231, AL117694, AC005086, D86995, AC003098, AC004100, AL050348, AC002039, AC007237, AL035667, AP000555, AC005726, AC007546, AC004216, U62293, U63721, AC005057, AC003973, AC005874, AF134471, AL132826, AL008634, Z82244, AL049869, AC006312, AC006275, AC004675, AL049576, AC006578, AC003681, AC007899, AL133312, AC006336, AC007292, AJ011931, AL020993, AL031781, AL050307, AL031290, AL035417, AJ243213, AC005043, AC008015, AL133238, AF107885, AF205588, AC004150, AF088219, Z93241, AC007367, AC005942, Z49235, AC003007, AL109914, AC005632, AE000662, AC005952, AL049745, AC007193, AP000350, AC004983, AF024533, AC006146, AC010200, AB011126, AC003119, AC000379, AC004836, AC006251, AL031056, AC002312, AL049776, AC004882, AC004975, M94081,

HMSGT45	3405	1 - 363	15 - 377	AC005736, AP000065, AL031659, AL049935, AC006030, AL008734, AC004776, AL049694, AL031676, AC004701, AC006039, AC004988, AC005037, U91322, AB020866, AC006270, AC008039, AC004789, AC002991, AC005786, AC005808, AL109798, AC002407, AC006365, AC002546, AC002530, AL034423, Z84466, AC002418, AP000469, AC004552, AC006360, AL022727, AF121898, AL009181, AC006026, AC004765, AC004386, AC004491, AC005529, AC007030, AC008038, AC005261, AC005932, AP000343, AC004156, U15177, AC006077, AL049843, AC005521, U95742, AC004448, Z97987, AP000696, AP000356, AC003082, AC007216, AP000355, AB013005, AF041001, Z95703, AC000353, U73645, AC008989, AC004622, AC004587, AP000045, AP000113, Z85987, AC007880, AC005048, AC003003, Z85986, U91318, AL021937, AF001550, AF196779, AL079306, AC004106, AF172277, AP000008, U95743, Z83826, AC005036, AL109748, AC005376, AC004938, AC006024, AC006959, AC002401, U91325, AF121782, AC005011, AL031053, AC005815, and AC006313.
HMSGU52	3406	1 - 313	15 - 327	R00440, H65822, AI032598, and AI655884.
HMSGU76	3407	1 - 283	15 - 297	AC004634.
HMSGU89	3408	1 - 467	15 - 481	AI791905, W31955, AI739525, AA459612, AA486469, AA410963, AW291807, and AW137789.
HMSGV47	3409	1 - 409	15 - 423	AA568624, and AC002477.
HMSGW16	3410	1 - 343	15 - 357	
HMSGX02	3411	1 - 347	15 - 361	AC005946.
HMSGX12	3412	1 - 268	15 - 282	
HMSGX14	3413	1 - 452	15 - 466	AW386461, AW386289, AW386672, AW386599, AW386619, and T52919.
HMSGX43	3414	1 - 290	15 - 304	
HMSHA04	3415	1 - 236	15 - 250	
HMSHA37	3416	1 - 347	15 - 361	
HMSHB10	3417	1 - 364	15 - 378	
HMSHB14	3418	1 - 351	15 - 365	
HMSHC94	3419	1 - 379	15 - 393	AC006566.
HMSHD50	3420	1 - 387	15 - 401	
HMSHE51	3421	1 - 364	15 - 378	
HMSHE55	3422	1 - 433	15 - 447	
HMSHG24	3423	1 - 348	15 - 362	
HMSHI54	3424	1 - 392	15 - 406	AL042448, and AF001549.
HMSHI94	3425	1 - 579	15 - 593	AA521310, W22173, and AF093097.
HMSHK14	3426	1 - 362	15 - 376	
HMSHL09	3427	1 - 231	15 - 245	AA954108.
HMSHL18	3428	1 - 340	15 - 354	AA504649, AI243516, AA936359, AA749365, AA748744, AI687298, AI219611, and AL110200.

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HMSHL85	3429	773811	1 - 348	15 - 362	AL117354.
HMSHM28	3430	855792	1 - 523	15 - 537	AA476784.
HMSHO64	3431	746582	1 - 398	15 - 412	
HMSHP08	3432	868170	1 - 364	15 - 378	
HMSHQ07	3433	953389	1 - 569	15 - 583	
HMSHR29	3434	924813	1 - 811	15 - 825	R25085, AA281484, AA099305, AA351609, W96314, and AL137561.
HMSHR64	3435	746587	1 - 406	15 - 420	
HMSHT10	3436	964647	1 - 376	15 - 390	AI358229, AA587604, AA908687, AW079135, AI457397, AI365988, AA613203, AL119691, AI334443, AW069481, AW419262, AI745325, AI281881, AI053672, AA652764, AI654525, AA482768, AI124759, AW338086, AI270559, AA669840, AA446657, AA610491, C05986, AI284640, AI754253, AW193265, F36273, AI133164, AA581903, AL046457, AW088058, AA551552, AL046205, AA346458, AA613232, AI799642, AI305547, AI821714, AI792133, AI791913, AL038705, AW270270, AA280632, AA503600, AW029038, AA493708, AW079792, AW439558, W79504, AW301809, AA828749, AI431240, AW407578, AA738034, AL120687, AI249997, AA720702, AA580808, AA502866, AI564185, AA613227, AW273218, AA973803, AA113861, AI866908, AI821785, AA309257, AW167372, AL119984, AA164251, H96730, AI245679, AA665021, AI684097, AW089322, AA747777, AW166815, AI471481, AI623696, AL138455, AI623898, AI076616, AL038474, AW341900, R91145, AA631507, AA767971, AW406162, AA569471, AI921296, AI434695, F25135, AA244286, AI299694, AA643962, AA722372, AA521323, F28204, AA713815, AI148277, AI951863, H77643, AA533725, AW021207, AI370878, AW149339, AL022328, AL096701, AC004033, AC005480, AC007731, AC005500, AC004637, Z98051, AC003007, AC006251, AL049569, AC005261, AC005632, AL021808, AC007666, AL049759, L47234, AC005900, AC006275, AC004019, AC004686, AC000052, AC005837, AL049776, Z86061, AC004967, AL020993, AP000114, AP000046, AL049643, AC007510, AC005527, AC004827, AC007207, AL049709, AC004987, AC006205, U85195, U80017, AC005089, AC007685, AE000658, AC007226, AC004638, AC006511, Z82097, AC002091, AC006017, AC006271, AC005231, AC004982, AC004491, AC005971, AC006449, AC002350, AL080243, AC004815, AC004148, AC016025, AC005696, AP000359, AC004848, AC001228, AC006040, AL109939, AL135744, AC000045, AL023913, AC008012, Z97054, AF196779, AC003029, AL022163, AC007390, AC002429, AP000115, AL022302, AC007114, AC005868, AC006312, AC005180, AP000402, AL031777, AC006482, Z83823, AC005529, AC006285, AC009721, AC006014, AC005901, X74558, AC006001, AC004812, AC004626, AC004832, Z69666, AC004765, AC006571, AC005747, AC007227, AC002448, AL008718, AC005841, AC006480, AP000141, AC000025, AL035072, AC005288, AC004997, AC005300, AC002347, AL132774, AC007298, AC005488, AC007151, AL034430, AC004755, AC006063, AC006208, U82668, D87675, AC003048, AC004975, AC005486, AC000353, AP000132, AP000210, AC006006, AC008101, AC002544, AB020859, AP000030,

HMSHT46	3437	959516	1 - 242	15 - 256	Z69705, U91326, AC008372, AL033392, AC005230, AC000094, AC005722, AC005585, AL023575, AC005324, AP001068, Z82244, AC007537, AL031687, AC003043, AC016027, AC016831, AL031283, AL121591, AC007308, AC007845, AL021937, AC004099, AC005775, AC005004, U95742, AC008079, AC004963, AC003688, AC016830, AC004931, AC004754, Z99716, AC007766, AC005598, AL132994, AC007324, AC006130, AC005406, AC007216, AL117258, AP000509, AF165926, AL021453, AC004069, U78027, AP000065, Z85987, AL110502, AL034417, AL139054, AC004659, AC003030, AL031277, AC006958, AL049699, AL031588, AL022721, AC004966, AC005911, AF001549, AC008018, AC005387, AC006213, AC000085, AP000553, AL008716, AC005678, AC005154, AL031602, Z99754, AP000088, AL031584, AC004986, AL121603, AL021707, AL021393, AC007535, AL021977, Z83840, AC005844, AC006071, AC005209, AL022322, AF190465, AL117328, AF045555, AL034451, Z75744, AC005808, AL008723, AC007051, L44140, AC002316, AC006111, AC007387, AL031311, AC007919, AC003664, AC005839, AL133355, AL121825, AC002476, AC005541, AC005670, AC004890, AC007686, Z84572, AC006116, D87009, AL031666, AP000249, AC005562, AC002045, and X60459.
HMSHU10	3438	964646	1 - 401	15 - 415	AA780867, AA746360, AI367306, AC004540, AL080243, AL031577, AC005546, AC007227, AF001548, AL031255, AF024533, AL035455, and AC016473.
HMSHU55	3439	731775	1 - 507	15 - 521	
HMSHV09	3440	731740	1 - 343	15 - 357	
HMSHV44	3441	716596	1 - 531	15 - 545	H67330.
HMSHW22	3442	855779	1 - 380	15 - 394	
HMSHW84	3443	783036	1 - 274	15 - 288	AC006241.
HMSHW93	3444	792302	1 - 299	15 - 313	R25210.
HMSHY07	3445	953331	1 - 494	15 - 508	
HMSHZ03	3446	924136	1 - 523	15 - 537	
HMSHZ56	3447	733386	1 - 302	15 - 316	
HMSIA12	3448	948521	1 - 714	15 - 728	
HMSIB73	3449	578777	1 - 433	15 - 447	AA936787, and AC003962.
HMSIB86	3450	785493	1 - 576	15 - 590	M62052, and AC007263.
HMSIC37	3451	685586	1 - 408	15 - 422	
HMSIC72	3452	740365	1 - 359	15 - 373	
HMSID81	3453	774047	1 - 489	15 - 503	
HMSIE11	3454	967013	1 - 124	15 - 138	AA312074.
HMSIE52	3455	727146	1 - 353	15 - 367	AA525024, AA525066, AA595766, AA524685, AI914785, N71720, AI401643, AA502477, N57913, R59126, AI471755, AI282710, AC003080, Z83847, AC005500, AC002352, AC000353,

					AC004383, AC004216, AL035461, AF053356, AC006430, AC006041, AC005071, AC006241, AC004382, M89651, AL035086, AC004638, AC007664, Z84466, Z93341, AC002992, AC002551, AC005484, AC002549, AC004055, AF109907, AC007226, AC004858, AC006213, S62834, M97764, AC004968, AC002472, AC005280, AC008040, AC005005, AP001053, AC007685, AC004910, AC004033, AC003957, AC004242, AL034379, AP000240, AC005736, AC005095, AP001052, AJ011930, AL122020, AC007193, AL049631, AL049712, AC007773, AL022336, AL022162, and AC004526.
HMSIG74	3456	725842	1 - 420	15 - 434	
HMSII81	3457	385937	1 - 311	15 - 325	R96445, and H70887.
HMSIJ85	3458	916552	1 - 278	15 - 292	AA487995, AI469687, AA487884, F18394, AA776236, AW383129, AI245679, AI364570, AI801591, AW118517, M77950, AI471374, AI355281, T56067, AA364193, AA654998, AI880002, AW157599, AA662017, AA359366, AA365248, AA102412, AI561335, AA584588, AA648064, AA652348, AA299151, AA593533, C15073, AA620525, AA480762, AA862213, AW383634, AI148245, AI910609, AI597832, AI431232, AI832782, AI040313, AL119649, AW302013, AW383608, AW383628, AA533450, AW383440, AW383542, AW383586, AW276172, AI952786, AI986251, AW383596, AW383605, AW383624, AW383606, AA653221, AA653975, AI367471, AI367401, AI355224, AI367420, H15679, AI049940, AL047602, AW272925, AI805380, AI418327, AI702095, AI186470, AI720431, AI684208, AI753567, AA632407, AI677668, N41759, AW082063, AA704147, AA533038, AW025031, T29360, H61393, AL048266, AI354587, AI538928, AI613473, AI635314, AA088841, AL135674, AA704123, AI341664, AI806850, AI198376, AA514737, AA094651, AA302970, AI682998, AI744188, AA053551, T58118, AW190947, AI915068, AA283761, F35659, AA404499, AI357477, AA364224, AA299601, AA228830, N25303, AA323547, AI613459, T67425, T05319, AA937687, AA813902, AW021285, AL119295, N70648, AI493546, AA635331, AA437161, AA535661, AI619997, AI521901, AI306524, AI925040, R80865, AI624698, R94354, W45336, R42293, AW193512, AA838333, AI249997, AI305547, AA702023, AA613893, AI744170, AA091452, AI174535, AA164960, AI572564, AI699060, H64560, AA179090, AI493634, AA829106, AA284184, AI783494, AA669522, AI270343, AW172727, AI439360, AI829331, AI802526, AI679713, W47444, AI587565, AA553385, AI287964, AI587583, AW151884, H97666, AI561255, AW383560, AW338086, AA332215, AW383455, AW383629, AA648110, AI128353, AI341548, AA179136, AI366071, AA079528, AI041382, AW338292, AI915293, AA629597, AA765979, AI110760, AI559114, W04195, AW103415, AA192695, AA481363, AL037574, H98660, AI582890, AW084253, AA481375, AW241511, AA362700, AW241456, AA584749, AA826144, AI805563, Z98473, AI281474, AA532955, AA342958, AA443065, AI270117, AW327282, AI345675, AA507246, AI345681, AI038833, AA491814, R26134, H60735, AI801205, AA013176, AL041706, AI633390, AL034402, AC005215, AC002301, U24498, AC002457, AF064866, U95090, AL020995, AL021938, AC000067, AC005661, AC004929, AL031722,

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					AA400632, AA368986, AA400317, AA811357, AI815926, AA353038, AI815728, AI888832, AI554783, AA740345, AA676886, AI833007, AI090223, AI148002, AW081785, AI436367, AA513753, AI797479, AI191303, F26406, AI188727, AA536076, AI432454, R07547, AI336523, and AI970899.
					AC005950, and AC001228.
HMSIN64	3459	963441	1 - 559	15 - 573	
HMSIN75	3460	728670	1 - 299	15 - 313	
HMSIO61	3461	741811	1 - 398	15 - 412	
HMSIO76	3462	767680	1 - 396	15 - 410	
HMSIP13	3463	792379	1 - 602	15 - 616	

HMSIP59	3464	739275	1 - 477	15 - 491	
HMSIS02	3465	920078	1 - 438	15 - 452	
HMSIT63	3466	745068	1 - 360	15 - 374	AP000150, D83253, and AP000009.
HMSIT73	3467	708077	1 - 309	15 - 323	
HMSIU50	3468	706363	1 - 349	15 - 363	AC007537, and AL109865.
HMSIV17	3469	712318	1 - 505	15 - 519	
HMSJA36	3470	685633	1 - 242	15 - 256	AL121652.
HMSJA69	3471	745227	1 - 323	15 - 337	
HMSJB02	3472	920065	1 - 552	15 - 566	
HMSJB64	3473	969637	1 - 356	15 - 370	AL043325, and D29677.
HMSJB83	3474	781172	1 - 303	15 - 317	F06560.
HMSJB93	3475	676414	1 - 411	15 - 425	
HMSJE47	3476	928252	1 - 527	15 - 541	
HMSJE52	3477	868167	1 - 455	15 - 469	
HMSJE69	3478	513164	1 - 598	15 - 612	
HMSJH79	3479	760667	1 - 420	15 - 434	
HMSJI22	3480	674557	1 - 584	15 - 598	AC004262.
HMSJJ24	3481	928152	1 - 651	15 - 665	AI144557, AA777781, AI418005, AW206289, AI627853, AI493150, AA827263, AW301021, AA196170, AI367643, R84740, AW139788, AI539840, AA992466, AL135079, AA342835, AA018860, AW341838, AA889455, AI086195, AI032948, AA136660, W95055, AW277153, AII123630, AC006987, AL031846, AC007276, and AL035461.
HMSJJ83	3482	781094	1 - 312	15 - 326	N71930, AA557879, AW193546, AL137954, AL120502, AA368936, AA578961, AA441788, AW072923, AI432270, AW406659, AI379719, AI499094, AI143242, AW069807, AI499503, AA837783, AA342901, T07324, AI307201, AA594215, AI160117, AA483034, AI635818, AA484148, AL119298, F28576, F36373, AA626637, AA528679, AI569086, AW265197, AA601270, AA309460, AA652057, AA649642, AI003734, AL041706, AA658846, AI079910, AA641103, AA493508, AI707788, AW193500, AW302117, AI890928, AI709066, AA095511, AI890570, AW088058, AI334435, AW340844, AL079645, AA694169, AW438916, AW057877, AI264743, AA578154, AL042856, AI312149, AA715270, AI357551, AA448858, AI051551, AI471374, AA484262, AA125788, AL079843, AI445436, AW408161, AA355281, AW406447, AA847741, R72392, AI281903, AI754291, AA548137, AA715268, AW276435, AW276932, AI557323, AI561335, AW264969, AI609223, AW173651, AA632648, AW072587, AI744739, AI469172, AI435544, AA341228, AW238016, AI963786, R13151, T92445, AA360694, AI345518, T63104, AI114660, AA657533, H70615, AI801591, AA608710, F33511, AA338522, AI674873, AI914706, AA448838, AI312309, AI654588, H55894, AA862225, AW188679, AA443695, T08638, AA584581, AA357987, AL110418, AA599495, AI473701, AI279759, AW249835,

					AI859251, AI669453, AI921188, AI627581, AI053790, AA603445, AA744297, AI252085, AW168342, AI865364, AI252114, F19156, AW022379, AI792903, AA704643, AI792864, AI733957, AI734002, AA745330, F32808, AI709365, AI612152, AI922002, AA679009, AA664407, AI927741, AI963095, N77729, R52326, AC002422, Z84487, AL031650, AC004963, AL121578, AC004020, AL122126, AC004079, AL031286, AC005026, AC003682, AC005191, AC007106, D84394, AL031285, AL109847, AP000355, AC007563, AL021397, AC009241, AL031584, AC002990, AC004706, U69730, AC006367, Z98755, AL031387, AJ006995, AL032821, AL035608, AP000567, AL022394, AC004047, AL133241, Z83840, AP000493, AE000660, AP000506, AC006046, AL049636, AL023279, AC005342, AC006924, AC008282, AL049775, AB000882, AL022098, AC004180, AC006197, AL022329, AC004025, AC003029, AC004385, AC005476, AC007486, AL080238, Z83841, AC000062, AL050343, AC007684, AL133249, Z94277, AP000507, AC007214, AL121823, Y10196, AL031255, AC003013, AC004865, AC010196, AC004383, AC010209, AC006271, AJ006997, AC005186, AB015752, AL031388, AC010072, AC006525, AB020867, Z83822, Z84470, AC007402, AC004038, AL031686, AL009172, AP001137, AJ006996, AC003049, AC004067, AC006143, AL109852, AL023876, AC007637, AF109076, AC009399, AL008723, AL121882, AC005722, AL049781, AC003010, AC004053, AC006120, Z82194, AC007245, AC002367, AL031446, AC010349, AL034350, AC006287, AC008123, AC004629, Z84469, AC004921, Z99128, AC003960, AC004478, AC002466, AC006062, AC002412, AC008012, AF107885, AC006115, AC004087, AC002457, AL122023, AP000240, AC011604, AL109801, AL023807, AC004593, AC004074, AL133163, AC005969, AC000004, AL049834, AL021392, AC004014, AC005832, Z83820, AC006441, AL121871, AC006079, AL133289, AC002524, AL031653, AC007666, AC004470, AC006966, AC002060, AL049589, AL022158, Z97876, AC002463, AC006582, AL021528, Z75741, AC007687, AE000659, AC004231, AL137100, AC007320, AL022720, AL096817, AC004835, AB020868, AL049874, AC004081, AC002287, AL035696, Z95329, AL109654, AC007786, AP000475, AC005229, AC006210, AC000086, AC002476, AL109753, AL008710, AL117338, AC007159, AC012099, AL109754, AC011422, and Z70225.
HMSJL41	3483	922753	1 - 504	15 - 518	AL022721.
HMSJM33	3484	702408	1 - 411	15 - 425	AC005233.
HMSJO36	3485	708084	1 - 397	15 - 411	AA502207, AI078409, AA635150, AI003391, AA182569, T16427, AA112646, AA551062, AI307563, AA458452, AA228442, F02399, AL135490, AA661590, AA021354, AI446478, AI302350, AA720732, AA722505, AA582554, AW407679, AI190648, AI270476, AI798493, AI302994, AA413406, AA021388, AI040051, AW081303, T03928, AI354243, AI453321, AI538075, AA631915, AA054170, AI610468, AA483103, AI862716, AI583466, AC004893, AL031597, AC004685, AC002544, AL035420, AC005839, AP000501, AL132777, AC006208, AC004000, AC005049, AC002476, AF165926, AL022476, AL133246, AC000353, AC006211, AC007096, AL035685, AL031774, AC005531, AC005081, AP000103, AC005726, AC007637,

					AC003043, AC007225, AC005274, AC004973, AC007773, AC005089, U91326, AC007993, AL031735, AC005411, AC005480, AC004033, AC005535, AL117352, AC004079, AC008116, AC004796, AL049697, AL031118, AL031667, AP000355, AC002492, AC003029, AP001052, AC000003, AL031432, AC004895, AL031673, AL008718, AC007216, AL050327, AB023048, AL121653, AL132712, AC004129, Z84487, AF196969, AC005064, AC005011, AC004139, Z98200, AC005777, AF038458, AC004686, AC004834, AC005412, AC004851, AP000211, AP000133, AC005363, Z97630, AL008710, AL034402, AC006077, AF053356, AL049872, AC008134, AL035072, AC004231, AL035683, AP000555, AL022313, AL022396, AC004526, AF134726, Z83826, AC004913, Z81365, AL049874, AL035450, L78810, AF030453, AC007551, AC006581, AC005837, AC004596, AC005907, AL033524, AF111169, AC006511, Z98941, AC003101, AC004841, AL008629, AC007226, AC005822, AC004814, AL049839, AL034582, AC007510, AL133448, AL034400, AL035413, AC006241, AL109758, AF001550, AC016830, AC005874, AF134471, AP000557, AC007686, AP000689, AC007283, AC005971, AJ246003, Z85996, AL136295, AC005228, AC007387, AC005520, AC007263, AL049569, AC002369, AL022165, AC004019, AC005229, AC002565, AC006039, AL035587, AL121658, AF067844, AL035249, Z98751, AC004216, AL034548, AC003663, AC005722, Z94056, AC007546, AC005332, AC004073, AL035089, AC005015, Z99716, AL035455, S42653, AC002554, Z82190, AC000159, AC004963, AC006449, AL035405, AC006441, AL049776, Z98304, AC008372, AC003962, AL031053, AC005154, AF001549, AC004655, AC005537, Z97053, AC006547, AC005881, AB020868, AL020993, AC005088, AL109952, AP000563, AC002430, AC002300, AL049759, U95739, AC004020, AL133163, Z93023, Z83843, AC002553, AC003035, AC007688, AC002350, AC005755, M89651, AC007384, AL031680, AC002302, AC005736, AC005209, AC003684, AC006126, AC002126, AL109984, AC000025, AC004876, AC004707, AC002375, AC005828, AL109627, AL021395, AC005280, U91323, AC006273, AB003151, and AC004678.
HMSJO44	3486	716600	1 - 378	15 - 392	AA740736, W61253, AA780648, AA167179, AI150934, T03928, AA743718, AA598889, AA865640, AI082150, AC007421, AC002091, Z82206, AP000691, AC006047, AC005484, AC004185, AL031680, Z69638, AP000692, AL033527, AC006538, AC016025, AL122020, AC007684, Z85986, AC002481, AC006511, AF217403, AL133249, AL022323, AL031311, AP000509, AC004668, AF196969, AC006960, AL109963, Z85994, AL049641, AL031846, AL021528, AC005342, AF207550, AC004953, AL031602, Z98941, AC005829, AC005332, AF111168, D84394, AP000228, AL031597, AP001056, AL035455, and AC004017.
HMSJR07	3487	854106	1 - 495	15 - 509	AA565398, AA382192, T73974, N87333, AW132065, AA557727, AA639939, AI049924, AI281622, AI887397, R57089, H59974, AA654293, AI911936, AI923263, H97930, AA070614, AA370883, AA618451, AA468247, N27874, AI601229, AI754653, AA468318, AA669747, AA584765, R77715, AW271071, H80215, AI419419, AI423034, AA721581, AA165079, H47641, F07225, T47096, AC005838, AL049646, AC002128, AL117354, AL049795, AL049712, AF118808, AF001905, AL137191, AC005994, AL049844, AL109865, AL022400, AF111168,

HMSJR27	3488	855760	1 - 576	15 - 590	AC006313, AL035458, AC005730, AL035443, and AL034344.
HMSJR41	3489	967070	1 - 416	15 - 430	AA002166, AA256383, AA699351, AA176339, and AJ249977.
HMSJR74	3490	710402	1 - 427	15 - 441	
HMSJT11	3491	965007	1 - 1744	15 - 1758	AI962693, AA135585, AL137976, AI417140, AA745126, AI352492, AA436379, AI379403, AW006280, AA135524, AA234271, N22187, AA491640, AA256692, N71230, H23394, F12594, and AB011127.
HMSJT60	3492	733379	1 - 258	15 - 272	AA218874, AW069273, N57205, AA975894, AA831375, H81732, AA730795, T98915, T62975, AA370455, AA330772, AA828696, R79496, R93081, AA348602, AI472686, AA968509, H97358, AA676621, AA317096, H12383, AC005099, AC004448, AC007327, AC005921, AC000063, AL033523, AC005736, AC002395, AP000556, AP000557, X77744, AP000553, D87011, AC007240, AC004961, AC004821, AC007666, AC007227, AC000052, AC004019, AC007226, AL135744, Z81308, AI049766, Z82194, AL035415, AC010170, AP001053, AP000252, AL023755, AP000134, AP000212, AL080276, AP000031, AC008372, Z86090, AC005914, AP000281, AC007999, AP000039, AP000107, AL049576, AC004706, AC007055, AC007151, and AL117337.
HMSJT70	3493	756465	1 - 385	15 - 399	
HMSJT79	3494	954141	1 - 433	15 - 447	
HMSJU28	3495	686664	1 - 400	15 - 414	
HMSJV67	3496	751602	1 - 401	15 - 415	
HMSJW12	3497	902568	1 - 3126	15 - 3140	AA585278, AA283312, AA585378, AA585389, AI526112, AA585116, AA585325, AA585329, AA585430, AA585439, T48593, AA585356, AA585327, AA585098, AA585453, AI525306, T26367, AW366296, AA585351, AA585101, AI541402, AI546855, AI541515, AF135243, A85395, A85476, AB005666, AR031358, AR017826, AR031365, AJ131952, AR037157, X82786, X55499, AR008429, AR062871, A25909, AJ007320, A70872, X93517, A44281, A94995, A70899, AR029417, A70869, AR060142, AR060137, A30438, Z79475, I50122, AR038669, A91667, M60510, A91666, AR060134, A84772, A84776, A84773, A84775, A84774, A83076, AF134119, Z79435, U79666, A91750, X84816, AR028672, AB005559, U89315, AR060057, AJ009991, AJ012010, Z31700, and A44216.
HMSJW19	3498	744990	1 - 691	15 - 705	AL043195.
HMSJW25	3499	678096	1 - 534	15 - 548	AL122020.
HMSJZ11	3500	861381	1 - 587	15 - 601	
HMSKB02	3501	920056	1 - 488	15 - 502	
HMSKB24	3502	855883	1 - 196	15 - 210	
HMSKC56	3503	733388	1 - 397	15 - 411	AW058639, AI339743, AA465532, AI698594, and AL133112.
HMSKC66	3504	783028	1 - 371	15 - 385	

HMSKC90	3505	1 - 373	15 - 387	
HMSKF32	3506	1 - 383	15 - 397	
HMSKF62	3507	1 - 587	15 - 601	AC004751.
HMSKG23	3508	1 - 381	15 - 395	AC008545.
HMSKI08	3509	1 - 509	15 - 523	AI203185, AW239380, AF094516, and AL122075.
HMSKQ60	3510	1 - 513	15 - 527	AW085811, AI188327, AI065031, AW069769, AA661583, H64858, H64884, AI962030, AW021399, AW023975, AW151848, AI609972, H59797, F35374, AI355246, AL042667, AL042670, AW023111, AI701898, AW237905, AW327673, AI250333, AW328331, AI733856, AI801479, AI890283, AI754257, AI439525, AI040051, AW069227, AI580472, T57096, AW243817, AA199578, AI174827, AW275432, AL121039, AI031759, AI702049, AW265468, AW328185, AI927275, AI744199, AW021917, AI733523, AA601336, AI571094, AI921744, AI567676, AI884404, AI251024, AW268793, AW021674, H38769, AA610381, AL044966, AI754653, AI017251, AI744890, AA493546, AW162314, W04260, AA809546, AW020612, AI925812, AI003469, AA644090, AI254267, AW085626, F23338, AI859438, AA515728, AA507623, AI803824, AI061313, AA525753, AA503307, AW162332, AA640305, AI249365, AA526542, AL038936, AA812133, AI572680, AA421536, AW028376, AW148821, AI889177, AI267416, AA828834, AI312614, AW057760, AW410844, AI053696, AI221027, AI003068, AA526659, AA720732, AI000314, AI049955, AI133083, AA533660, AA526658, H86399, F29968, AW270385, N23504, AI547110, AA470933, AL036949, AA112864, AA947352, AI821901, AW020094, AW189853, AW268277, AI311796, AW301771, AI446618, AA653139, AI039257, AI246796, AW407007, H94598, AI872229, H62123, AI862716, AA593168, AI185160, M77964, AA636077, R79396, AI918661, AA807704, H47461, AI434103, AI679759, AL038533, N70293, AA600127, AI457313, AI064968, AI202777, AW190437, AI634187, AW131109, AI805556, AI361401, AA761454, AA428991, AA496042, AI363336, AI805373, AI343808, N35135, AW081610, AI732151, AA419107, AI653999, AA419014, AI798521, AI148840, AI566408, AI653776, AA502991, AA152398, AW419201, H68343, AA568303, AW082104, AA604149, AA600202, T90477, AA595661, AA515727, R93919, AA364147, AA598545, AI801505, W27084, AA551062, AC006071, AC006006, AC004876, AC005694, AC005015, AP000116, AC006449, Z84474, AL022320, AC006071, AP000048, AC005826, AC005755, AL121603, AC005993, AC007666, AL031680, AP000048, AC005694, AC004263, AL009181, AC004671, AC004765, AP000558, Z97055, AP000309, AC007314, AL049591, AC006379, AC005064, AL035684, AC002351, AL022313, AC009247, Z83844, AC005037, AL133448, AC005527, AC004796, AL022336, AC005529, AL096712, AC005519, AC006344, Z83840, AC002418, AC005484, AL031255, AL031587, AL022721, AC009516, Z80232, AL034553, AP000280, AC007686, AP001068, AC005300, AC006539, AC004386, AP000252, AP000107, AL117391, AC004019, AL034379, Z95116, Z97181, AC007917, AC005902, AL035445, AC008498, AC005288, AC007285, AF031077, Z81450, AC005736, AL109847, AC007051,

HMSKS66	3511	413201	1 - 426	15 - 440	AC005202, AC002565, AC006946, AP000212, AP000134, AC005089, AC004703, AC003682, AL022322, AC000029, AL035659, AL096791, AC002504, AP000692, AC004531, AP000039, AC004003, AC007216, AC006581, AL020997, AC007731, AC004973, AC006013, AC004883, AL033527, AC004912, AC005500, AC004814, AF165926, AC007358, AC007510, AL021707, AC004257, AP000556, AL035416, AC005253, AC005224, AC006388, AL031666, AC005971, AL050307, AL035079, AC005488, AF001549, L78833, AL050318, AL049761, AL122020, AL135744, AC002543, AC004032, AJ011930, AL035457, AC000353, AC007226, AL049869, Z81364, AC000387, AC004000, AC004752, AL078477, AC000105, AC007688, AL109984, AL117355, AL049760, AL031005, AC004099, AC005280, AP000362, AP000553, AL049743, AL133163, AL133246, AC004097, AC002996, AC005200, AL109952, AC004652, Z98749, AL022326, AC006273, Y18000, AC005409, AC004223, AC006453, AL020993, U96629, AL022396, AL080243, AF031078, Z93017, AC006441, AC003108, U85195, AC005399, AC005839, U95742, AL050321, AF030876, AC007536, AL021579, Z93930, AC003083, AE000658, AC003048, AC004033, AC006211, AL035086, AC004167, AC005740, AC006487, AF207550, AC006285, AC004659, AL132777, Z98048, AC005585, AC006971, AC006317, AL022476, AC006088, Z98200, U52112, AL049694, AC005393, AL031121, AC004865, AF109907, AC010205, AF117829, AC005754, AC006162, Z95329, AC008044, AC005358, AF134726, AC005821, AP000557, AC006597, AL121852, AL031591, AC009509, AL034429, AD000092, AC002369, AL049709, AC005339, AC004034, AC004805, AC005412, AP000555, AP000264, AC004626, AC006125, AL031296, AL096701, AC008009, Z84469, AC005183, AL049778, AC005303, AI246003, AL078584, AF003626, AL008710, and AL049646.
HMSKU36	3512	966289	1 - 374	15 - 388	T64029, AC002115, AC006480, and AC005306.
HMSKU90	3513	920151	1 - 734	15 - 748	
HMSKZ29	3514	690662	1 - 341	15 - 355	AA745302, AI567391, AI160786, AA058312, AA553570, AI929298, AI929825, AI927261, AW157180, H71659, T06518, AA229422, AA523695, AA420729, AA425924, AA654874, AA445908, AI871913, AA378207, AI246061, AA634926, AA586433, W81372, AA378489, AI298079, H29914, AL037927, H73550, AI300818, AI310992, AI192440, AI380617, F26713, AA862075, AI811647, F33037, AA584207, AA077637, N58301, AA581247, AA630122, W21218, AA025872, AI342677, AA569053, AA728880, AA368329, AL044384, AW023111, AW019964, AW162128, AI915081, AA744410, AW419389, AA599423, F33126, AA721523, AA721530, AA363003, AA328387, T99179, AW275432, AA663373, T83057, AA282951, AL121287, AI054090, AA078128, AA568314, AA554257, AA079076, AI078409, N44146, AA714073, T54783, AI671077, R93919, N27615, AA904211, H81406, F30158, AA937809, AI866580, AA584493, T69879, AA579188, F23294, AI272649, AA127570, N36143, N86362, AI686470, R87135, AW245860, C16358, AA205436, AL134527, AI284543, AA214042, AW238575,

AA584183, AI358542, AI254770, AI302156, R70883, AA541532, AA668905, AI251944, AI284126, AA306530, AI251034, AI251203, AA315361, AI251284, AA837771, AI369580, AA487226, AI250552, AA583546, AA937618, AI434037, AI434144, AA516214, T87883, F34939, AA452887, AA642809, AW069537, F35684, AW236277, AA322484, AA223512, T08386, AA613761, AI871691, T62543, T26476, AI439393, H67064, F05830, T62078, R81176, AI355246, H14566, AA314338, AI633386, AA640310, AA633197, AI798407, AA515728, AW161459, AI198718, T47138, AA664298, R64640, AI860535, AA346870, AA219349, AA130609, AI364568, AW029269, N92813, AW151541, AI445774, AA082509, AW157731, N34689, AA610848, AA256107, N73021, AA137025, AW161879, F24745, AA460692, AW029618, AA357850, AI191343, AA657897, AA460994, AI003797, AI433503, AA936548, AA488646, H24953, AA501461, H90845, AA669054, AI418661, AA878344, AA657910, AA467774, AL118510, AC002045, AL080243, AC005666, AL096678, AC003666, AC004913, AF207550, AC006001, AC004787, AL031595, AB020872, AF017104, AC016831, AC002395, AL022717, AB026898, AC005537, AC004835, AC005015, AC005037, AL049835, AC005920, AC004805, AL049569, AC004887, AL133396, AC005037, AC009399, AL096776, AL033517, AC002112, AL135960, AJ131016, AC005914, AL133304, AC005145, AL121754, AC006285, AC016025, AC005756, AC004837, AL024509, AL117694, AC004843, AL022726, AL022724, U91326, AF088219, AC005578, AC004828, AB017653, AL132777, AL096701, AJ006995, AC004883, Z84469, AL049781, AL009179, AL022165, AF001905, AC005409, AC006461, AC002303, Z54072, AC006547, AC002073, AC005664, AL049776, AC005146, AF188024, AL021326, AP000065, AL031983, AC007681, AP000498, AC004656, Z82195, AL139054, AL031984, AC004836, AC008975, AC007637, AC002390, AL133243, AC007919, AL022394, AL133500, AC006930, AC005690, AC006430, AC004972, AL031846, AC007344, AL031230, AC005412, AL034420, AL035687, U96409, AL133245, AC005618, AL021393, Z86090, Z84488, AL008707, AC003685, AC004686, AC005971, AL035415, AC008372, AC005071, AC002385, AC009516, AC004955, AC004804, AC006137, AC005013, AC003041, U85198, L47234, AP000270, AC007993, AL109983, AC002351, AC007012, AF199339, AC005486, AF030453, D88270, AC007253, AC005006, AF129108, AC000056, AC004542, AC004820, AJ239322, Z83820, AF093117, AL035420, AL021154, AC022517, AC005940, AC005088, AC005740, Z92542, Z98946, AC000159, AC006084, AC004854, AC009802, AC003108, U91324, AC005900, AC005294, AL031864, AC005094, AL021938, AL096747, AL109758, AC018633, AC005878, AL109854, Z98200, AL049564, AP000220, AC004383, AL050325, AP000101, AF053356, AC004934, AC000026, AC004253, AC005871, AC006487, AC005261, U91325, AC003689, AL133312, AC003010, AC003691, AC004938, AC005184, Z82205, AP001053, AP000696, AC009044, AL008719, AC002059, AF029308, AC002365, AC008041, AC002312, AP000084, AC007240, AL022330, AC000097, AC003024, AL117330, AL031291, AC002543, AL008730, Z94056, AC004167, AP000503, AC004025, AL049710, AC007055, AC002040, AL033521,

HMSLB94				AC005546, AC004821, AC004583, AP001052, AF134726, AL022476, AL121769, AC007444, AP000032, AP000103, AC005484, AC005069, AC006571, AL049830, AC007225, AC007773, AC006120, AC006011, AP000117, AC007388, AC002988, AC002044, AF196972, Z99716, AC006387, AL109963, AC005159, Z68277, AL049589, AC006582, AL049561, AL121973, AC005206, AL031686, Z84466, AC003982, AC006323, AC004983, AL008583, and AC007938.
HMSME83	3515	773812	1 - 317	15 - 331	AW193829.
HMSMF12	3516	950970	1 - 600	15 - 614	
HMSMG02	3517	948393	1 - 443	15 - 457	
HMSMH05	3518	915179	1 - 369	15 - 383	
HMSMI12	3519	931095	1 - 594	15 - 608	
	3520	969636	1 - 610	15 - 624	AI866580, AI133083, AA719073, AA469282, AA824484, AA425924, AA601674, AI114733, AI133552, AL109628, AC009247, AC005670, Z99716, AC005920, AC007917, AC005409, Z84487, AL022326, AL022163, AC004686, AF053356, AL031846, AC004922, AL133244, AC005527, AC007216, AC007055, AC004491, AC005940, AC006538, AC005562, AC005529, AC004703, AC004815, AC003663, AC006539, AF134726, AC007688, AC005225, AC005081, AC004991, AC006021, AC002425, AC002350, AP000503, Z98884, AL034343, AC007676, AC006312, U85195, AC007285, AC020663, AL022399, AC005632, AE000658, Z97056, AL135783, AL021939, D63861, AC005914, AC005288, AF001552, AL031311, AC005015, AC004897, AC004883, AC005057, AL049776, AF064858, Z83845, AC004990, AC006509, AC005829, AL035462, AC008072, AF129756, U62317, AC004760, AL079342, AC004552, AC002301, AL049591, AC004150, AC006071, AL022165, AC006077, AC005082, AL133448, AL109798, U96629, AL022329, AC002115, AP000501, AL121603, AC016025, U91323, AL023803, AC007227, AC005746, AL049636, AL035091, AC007226, AC007686, AL035400, AF111168, AC005500, AC007685, AC004895, AL021808, AB003151, AL049830, Z93017, Z98742, AC002558, AL035681, AC004895, AL035363, U95742, AL121653, AL031589, AC003037, AC005520, AF047825, AC006057, and AL024508.
HMSMK12	3521	841898	1 - 658	15 - 672	R51068, H18491, AW378532, D34614, AC006208, and AL022322.
HMSML27	3522	870008	1 - 344	15 - 358	
HMSMN04	3523	926746	1 - 179	15 - 193	
HMSMN23	3524	932548	1 - 708	15 - 722	N80156.
HMSMQ05	3525	931022	1 - 98	15 - 112	
HMSMV92	3526	934140	1 - 502	15 - 516	
HMSMX68	3527	861333	1 - 412	15 - 426	F04478, AA661921, AW438643, AA492081, F09626, AI002834, AI634384, AA584167, AA992351, D52587, F19070, AA782304, AA780944, AW193265, AW276827, AI688846, AL046409, AI619997, AA347368, AA577906, AI860013, AI345157, AI350211, AW193432, AA599920, AI289067, AI061334, AA623002, AI754658, AA873532, AL045808, AL046156,

Clone	No.	Range 1	Range 2	Accession Numbers
HMSNA44	3528	1 - 615	15 - 629	AI814735, AI744995, AI584186, AI375710, AII133164, AL135520, AI305766, AA757797, AW302903, AW083364, AI537955, AA634165, AA320113, AI341664, AI344844, AL046266, AA719805, T51911, AA491831, AA621596, AA493695, AI431303, AW023149, AA350859, W45625, AA715355, AA664015, F00132, AA244208, AA568778, AC007314, X55932, U18390, L47228, X55929, AC005907, U18389, S77605, S70689, I51997, X54179, U18388, X55930, U57008, U18393, AD000684, X55925, U18394, U18395, U57006, U18392, U18391, S70692, X54180, U57007, AC007919, AC003005, X54175, AC006017, S70707, X55926, AF015157, X55927, AL023575, AL031668, U18396, AF015153, X53550, Z69666, Z82215, AF015147, AL109617, X54177, AF015151, AC007304, AP000473, AL049776, X55931, L81654, AC009946, X54178, AL049642, AC004043, X54181, AC006449, AL033525, U67227, U67217, AC003957, U67231, U67230, AC004072, U67801, U67226, U67229, AC000100, AC008039, AC005783, AC004593, AL132800, AC008101, AJ003147, U67211, AL023807, AC005696, AC006998, Z49816, AL031281, AL133321, AC005821, U67235, AL021937, AC002470, AF088035, AL137100, X88791, AP000855, AL080242, AC005548, U67234, U67222, AL008720, AL121934, U91322, AC002429, U67233, U67225, AC004691, Z83844, Z98200, AC007682, U67228, Z98172, AL080278, AC007687, AL035681, AL035458, AP000468, AL031291, AC003080, AP000328, AL049709, AC004047, AC002347, AC004848, L43392, AC007324, AL049871, AC004675, AC006120, AC007656, Z68869, AL023804, AC005288, AC004832, AC004816, AC002037, AC005209, AC006315, AC007664, AC008079, AC007193, AL035361, AF088219, AC005533, AL049712, AL109618, AC006312, AJ011932, Z97630, AL035249, U67216, AC005041, AL049829, AL031432, AC005553, AF123462, AP000144, and AL049766.
HMSNR30	3529	1 - 622	15 - 636	AI089800, AA830179, AA830184, AI798048, AW055247, AA913784, R62312, AI219663, R62313, AA164726, Z82243, AF107840, and AL049869.
HMSNR92	3530	1 - 612	15 - 626	H51736, and AA352806.
HMSNX38	3531	1 - 585	15 - 599	
HMSOA29	3532	1 - 455	15 - 469	AP000083, and AL049634.
HMSOA34	3533	1 - 753	15 - 767	
HMSOB43	3534	1 - 321	15 - 335	AC004706, AC000357, AC016025, AC016026, L78833, AF064863, and AL023575.
HMSOC76	3535	1 - 238	15 - 252	AA657671, and AI926886.
HMSOE03	3536	1 - 401	15 - 415	AL031133.
HMSOG57	3537	1 - 541	15 - 555	W04498.
HMSOM08	3538	1 - 557	15 - 571	AW157349.
HMSON02	3539	1 - 436	15 - 450	AA595739, and AL022476.
HMSON77	3540	1 - 613	15 - 627	T59270, AA484892, AA714073, AA857812, AA741301, AI279417, AI797998, AA728911, AI798242, AA326452, AI419337, AI361090, AI678581, AI421950, AA633565, AW303822,

HMSOO10	3541	963389	1 - 514	15 - 528	
				AL048361, and AC007228.	AW026305, N75708, AA654535, AI859906, AI354602, AW247389, AW389929, AA830615, AA020882, AA348602, AA516247, AA664248, AI049955, T08386, AA767571, AI289050, AA339789, AI284092, T94072, AI143653, H02532, AA358258, AI359200, F17537, F30586, AI884861, AII23488, F03907, AA984763, AII24439, AA501461, AW192518, F10822, AW372037, AL044602, AI921619, AI362442, T05617, AI570805, W78056, AA831638, AA218874, N29930, R45579, AA453558, AA916430, AW069273, AI803741, AA745302, AA730795, AL118573, AI889426, AA828045, AA578905, AA632556, AI948984, R62772, AA878407, N55041, AI948959, AI584031, AW089625, AA662989, AA504872, AA598608, AI270647, AA487569, F25640, AF001552, AC005274, AL035684, AC004383, AC006026, AL049872, AL033428, AJ003147, AC004024, AC007685, AC005088, AL109798, AL021407, AC004125, AC004832, Z73417, Z93023, AB023054, AC002287, Z98304, AC006064, AC006263, Z95331, AF095901, AF109907, Z84480, L44140, AF015416, Z98742, AC008372, AL033527, AC005972, AC007066, Z98949, AF030453, AL109827, AC005670, U47924, AC006468, AC000359, AC004882, AL034400, Z95115, AC005859, Z85996, AF196971, AC006581, AC004491, AC005529, AC007656, AL133163, AC006449, AP000240, AP000065, AL021393, AC005291, AC006538, AP000221, U91321, AP000229, AL049759, AC004961, AC005300, AC005740, AC005193, AF196972, AL121825, AC004079, AC004106, AC005598, AL022312, Z82206, AL049829, AP000008, AF111169, AL096791, AL035398, AC007917, Z68164, AL021155, AF064865, AC004055, AC007057, AC005765, AP000704, AC004890, AC005288, AL023876, AC005057, AC005327, AC005881, AC004876, AL049869, AC006211, AL022162, AL031053, AC007151, AD000812, AC007263, Z92542, AL031767, AL034548, AL022313, AC016027, AL009179, AL031311, AC003983, AL008630, AC005578, AC005048, AL035458, AL009181, AC005006, AC005209, AF165138, AF003626, AC002126, AL133371, AC005796, AL031228, AC004033, AC007193, AC002472, AP000031, AC005754, AC007664, AL096761, AC002530, AC004150, AC005940, AC005476, Z82176, AF001549, AC004025, AC007030, AC002538, AC012384, AC004408, AL031985, AC003101, AL035419, AC007450, AL022320, AC005538, AC007688, AI251973, AL049839, AL049576, AC005081, AC005480, AC001234, AP000112, AP000044, AC007056, AL031284, AC003047, AC002116, AC004801, AC004993, AP001052, AL022315, Z93017, AC005815, AC006599, AL133485, AL031279, AC009330, AC004003, AP000272, AL031680, AP000518, AP000193, AC003071, AF060568, AC004895, AL008729, Z68269, AC005971, AP000050, AC007225, AC005015, AC007880, AC003982, AC009363, Z69366, AC005152, AP000493, AF111167, AC000394, AC004953, AC009247, AF067844, AP000045, AC006485, AP000117, AL035400, AC006130, AF038458, AL009051, AL049712, Z82203, AC007666, AL080245, AC005778, AC004887, AL109967, AL049734, AF053356, AC006466, AC004966, U96629, AC004687, AF117829, AC006160, AC006960, AC002425, AC005261, and AC006950.

HMSOP01	3542	915083	1 - 580	15 - 594	AA020882, H64598, T60940, R78647, AI223968, AA487079, AA558487, T07225, AA515224, AC000059, AL079342, AL035079, AC003071, Z93020, AC005081, AC004655, AL035555, U80017, AL049776, AC005482, AP000704, AL021154, AL121754, AP000555, AC006536, AF179633, AF196971, AC009405, AL133245, AP000355, Z84469, AC002073, AP000350, AL031673, AC002395, AC006360, AF111168, AC005826, AL109809, AC004051, AC006121, AC003669, AC005873, AC005004, AF029308, U47924, AC005934, AL109620, AC006061, AL121757, AL049780, AC005369, AC006128, AL136295, AL031311, AL031257, AC005225, AL031985, AF130247, U40455, AC000066, AC007632, AC010205, AC004764, AC005399, AC007785, AC003051, and AC007091.
HMSOQ75	3543	959856	1 - 245	15 - 259	
HMSOU16	3544	948198	1 - 631	15 - 645	D59619, D80253, D80196, D51423, D59927, D80366, D80219, D80193, D59889, D80043, D80045, D80210, D80240, D80391, D51250, C15076, C75259, D80195, T03269, D80022, D81030, D80227, D50995, D59275, D58283, C14014, D80134, D80188, D80038, D59787, D51799, C14227, F13647, D80378, D81026, D59467, D80168, AA285331, D80949, T11051, D80212, D50979, C14429, D80164, D59502, D59695, D80166, D59859, D80269, D80268, AI910186, D58253, D80024, T11417, D57483, D59610, AW178775, D81111, D80241, D52291, C14331, AW177440, C14389, AW179328, D51060, AW178775, AW378532, AA305409, AI557751, AW377671, D51079, AI905856, AW352158, D51097, D80522, AW178762, AW177501, AW177511, AW360834, D80014, D51022, AW360811, AW352117, AA305578, AW360817, AW176467, AW378540, AW375405, D80251, AW366296, AW360844, AW375406, AW378534, D80064, AW179220, AW179332, AW377672, AW179023, AW178905, D80248, AW377676, AA514188, AW378539, AW352171, AW352170, AW177731, AW178907, AW179019, AW179024, AW177456, AA514186, AW177505, D80133, AW178906, AW360841, AW179020, AW178909, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW177018, C05695, AW352174, AW179004, AW178914, AW378525, AW367967, D80132, AW177728, AW178774, AW178911, AW378543, D80302, AW352163, AI557774, AW178983, AW352120, D80439, AW178781, D80247, T48593, D80258, AW177723, D51103, AW367950, D58101, T03116, AW378533, AA033512, C06015, D80157, D51759, AL048680, AW178986, D58246, D59503, AW177734, D45260, C14975, C03092, AW378542, H67854, H67866, Z17814, AA809122, AI535850, AI525923, D80314, AI535959, AW360855, AI525917, D59317, AA514184, AI525920, AI535686, AI525227, AI525913, A67220, A25909, D26022, D34614, AR025207, Y17188, X68127, AB012117, A85396, AR066482, A85477, A62300, A86792, A62298, X67155, U87250, I19525, D89785, A78862, A44171, A84916, AJ132110, D88547, X93549, S69292, X82626, AR018138, I18371, AF135125, S78798, AR062871, I15997, AF058696, Y12724, AR037157, A80951, X92518, AR008430, AR008278, AR051191, AR064240, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, AB028859, A84772, X89963, A84776, AR067731, AR067732, A58522, A91750, A84773, A84775, A84774,

HMSOU92	3545	947760	1 - 521	15 - 535	AR051190, A94995, AR023705, AR008443, A43601, I50126, I50132, I50128, I50133, X60736, A30438, AR066488, A26615, AR052274, A82595, AR016514, A45456, AR060138, Y09669, AR060385, AB002449, AR066487, A43192, A43190, AR038669, AR066490, D88507, I18367, A70867, D50010, AB012121, AB033111, Y17187, Z32749, A63261, X55486, AR008408, AR016691, AR016690, U46128, M60510, D13509, AR060133, A64136, A68321, AR000511, I14842, AR054175, U87247, AB023656, U79457, AF123263, AR032065, X93535, and AR008382. AA131030, and AA130991.
HMSOV17	3546	835834	1 - 701	15 - 715	N70425, D59927, D59619, D80253, D80196, D80193, D51423, D80219, D80366, D80043, D51250, D80210, D59889, D80240, D80391, D80045, C15076, C75259, D50995, D80195, D59275, T03269, D81030, D80227, D58283, D80134, C14014, D80022, D59787, D80188, F13647, D80038, D51799, D81026, C14227, D59467, D80378, D80168, AA285331, T11051, D50979, D80949, D80212, C14429, D59502, D80164, W93336, D80166, D59695, D59859, D80268, D80269, H69709, D58253, AI910186, D80024, T11417, D57483, D59610, AW178893, D80241, D81111, C14331, C14389, D52291, AW177440, AI557751, D51060, AW179328, AW178775, AA305409, AW378532, AI905856, D51079, AW377671, AW352158, D51097, D80522, AW177501, AW177511, AW178762, D51022, AW360834, D80014, AW360811, AW352117, AA305578, AW375406, AW176467, AW375405, AW378540, D80251, D80064, AW366296, AW360844, AW360817, AW378534, AW179332, D80248, AW377672, AW179023, AW178905, AW179220, AA514188, AW378539, AW352171, AW352170, AW377676, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW177456, AW177505, AW178906, AW360841, AW179020, AW178909, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, AW352174, AW367967, AW179004, AW178914, AW378525, D80132, AW177728, D80302, AW178774, AW178911, AW378543, AW352163, T48593, AI557774, AW178983, D80439, AW352120, AA699681, AW178781, D80247, D80258, AW367950, AW177723, D80157, D51103, D58101, T03116, D51759, AA033512, AW378533, C06015, AL048680, AW178986, D58246, D59503, AW177734, D45260, R91284, C14975, C03092, H67854, AW378542, H67866, AA809122, AI535850, AI525923, AI535959, AW360855, AI525917, D59317, D80314, AA514184, AI525920, AI535686, A67220, A25909, D34614, D26022, AR025207, Y17188, X68127, AB012117, A85396, AR066482, U87250, A85477, A86792, A62300, A62298, X67155, I19525, A78862, A44171, D89785, A84916, AJ132110, D88547, S69292, X93549, I18371, X82626, AR018138, AF135125, AF058696, S78798, AR062871, I15997, AR037157, AR051191, A80951, X92518, AR008430, I68636, Y12724, A20702, AR062872, A43189, AR062873, A43188, A20700, AR008278, AR017907, AR064240, AR051190, A84772, AR067731, AR067732, A58522, A91750, AR060138, A43601, I50126, A84774, AB028859, AR023705, X89963, A94995, AR008443, A45456, A82595, AR066488, A45456, A82595, AR016514, Y09669, A26615,

HMSOW85	3547	1 - 693	15 - 707	D59619, D80253, D59927, D80196, D80219, D51423, D80366, D59889, C75259, D59275, D80045, D50995, C15076, D80134, D80193, D59787, D80043, D80227, D80210, D80240, D80391, D51250, C14227, D80022, D80168, D80038, D80195, T03269, D81030, D58283, C14014, D80188, D51799, D81026, F13647, D59467, D80949, D80378, T11051, AA285331, D50979, D80212, C14429, D59502, D80164, D80166, D59695, D59859, D80269, D80268, D58253, AI910186, D80024, AI557751, T11417, D57483, D59610, AW178893, D80241, D81111, D52291, C14331, AW177440, C14389, D51022, D51060, AW179328, AW178775, AW369651, AA305409, AW378532, AI905856, D51079, AW377671, AW352158, D51097, D80522, AW178762, AW177501, AW177511, AW360834, D80014, AW352117, AW360811, AA305578, AW176467, AW375405, AW378540, D80251, AW366296, AW360844, AW360817, AW375406, AW179023, D80064, AW378534, AW179332, D80248, AW377672, AW178905, AW179220, AA514188, AW179019, AW378539, AW352171, AW377676, AW352170, AW177731, AW178907, AW179024, AA514186, D80133, AW177505, AW178906, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, AI557774, AW352174, AW179004, AW178914, AW378525, D80132, AW367967, AW177728, D80302, AW178774, AW178911, AW378543, AW352163, AW178983, D80439, AW352120, AW178781, D80247, T48593, D80258, AW177723, D51103, T03116, D58101, AA033512, AW378533, C06015, AW367950, D80157, D51759, AL048680, AW178986, D58246, D59503, AW177734, D45260, AL043445, AL043423, AL038821, AL039085, AL039150, AL043441, AL039156, AL044530, AL044530, AL039564, AL039538, AL039108, AL039386, AL039678, AL039074, AL039109, AL038837, AL039625, AL039648, AL039629, AL037726, AL038531, Z99396, AL039109, AL040992, AL039924, AL039128, AL044407, AL036973, AL045337, AL037051, AL045353, AL036725, AL039423, AL039410, C14975, AL045341, AL039509, AL039566, AL039659, T23659, AL042909, H00072, D80314, T24119, AB011127, A67220, A25909, D34614, D26022, AR025207, Y17188, X68127, AB012117, A85396, AR066482, A85477, A86792, U87250, I19525, A62298, A62300, A44171, X67155, I68636, D89785, A78862, A84916, S69292, AJ132110, I18371, D88547, AR062871, S78798, AR037157, A80951, AR008430, X93549, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, X82626, AR018138, X92518, I15997, A84772, AR067731, AR067732, A58522, A91750, A84776, A84773, A84775, A84774, AF135125, AR051191, AF058696, Y12724, AR008278, AB012121, AR064240, AR051190, A26615, AR052274, AB028859, AR023705, X89963, A94995, AR008443, A43601, X60736, I50126, I50132, I50128, I50133, AR066488, A82595, AR016514, AR052274, A43192, A43190, AR038669, A30438, AR060385, AB002449, AR066487, I18367, AR066490, AB012121, D88507, D50010, Y17187, AB033111, A63261, Z32749, A70867, AR008408, X55486, AR016691, AR016690, U46128, M60510, A64136, A68321, D13509, AR060133, AR000511, I14842, AR054175, U87247, AB023656, U79457, AR050680, AF123263, AR032065, AJ000347, X93535, and AR008382.

HMSOX47	3548	948202	1 - 742	15 - 756	X55486, AR060138, A45456, Y09669, A30438, AR060385, AB002449, AR066487, Y11458, A43192, A43190, AR038669, AR066490, D88507, Z32749, I18367, D50010, AB033111, Y17187, A02712, A70867, A63261, Y11449, S70644, Y11447, AR008408, A95051, AR016691, AR016690, U46128, AR064706, I84553, I84554, M60510, A97211, A91754, AR031374, A49700, AR031375, A58521, AR020969, A38214, X58217, I56772, I95540, AR018924, A63067, A51047, A63064, AR018923, A48774, A63072, A48775, AR068507, AR068506, D13509, AR000006, AR015960, AR000007, AR015961, AR061736, AF130655, X73004, AR060133, AF019720, D14548, I19516, AB007195, A18053, I06859, A23334, A75888, I70384, A60111, A23633, A23998, A58524, A58523, I00074, D44443, D88984, AR018970, A95052, A18050, AR007512, AR036905, AJ244003, AJ244004, AJ244005, AR054723, A04441, A04442, A98767, A04447, A04448, A93963, A93964, I63120, AR043602, AR043603, AR043601, I66495, I66494, I60241, I60242, AR038762, I66486, I66487, A64136, A68321, AR000511, I14842, AR054175, U87247, I66498, I66497, I66496, I12420, AR054109, AB023656, A97171, A97217, D61405, U79457, AF123263, A64081, A24783, A24782, and AR032065. D80193, D59619, D80253, D80196, D80043, D51423, D80210, D59927, D80219, D80240, D80391, D51250, D80366, D80195, D59889, T03269, D81030, D80227, D58283, C15076, D80045, D80022, C75259, D80188, C14014, D50995, D80038, D51799, D59275, F13647, D80378, D80134, AA285331, D81026, D59787, D59467, C14227, D80949, D80168, D80212, D50979, C14429, T11051, D80164, D80166, D59502, D59859, D59695, D80269, D80268, D58253, AI910186, D80024, D57483, T11417, D59610, AW178893, D80241, D81111, AW378532, D52291, C14331, AW177440, C14389, D51060, AW178775, AA305409, AW352158, AW377671, AI905856, D51079, D51097, AI557751, D80522, AW178762, AW177501, AW177511, AW360834, D51022, D80014, AW378540, AW352117, AW360811, AA305578, AW176467, AW375405, D80251, AW378539, AW366296, AW360844, AW360817, AW375406, AW378534, AW179332, D80064, D80248, AW377672, AW179023, AW178905, AW179220, AA514188, AW352171, AW352170, AW378528, AW377676, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW177505, AW178906, AW360841, AW179020, AW178909, AW177456, AW177733, AW378525, AW179329, AW178980, AW178908, AW178754, AW179018, AW352174, C05695, AW378543, AW179004, AW178914, AW177728, D80132, AW367967, AW352163, D80302, AW178774, AW178911, AW178983, D80439, AW352120, AW178781, D80247, T48593, D80258, AW177723, AW378533, AI557774, D51103, T03116, AA033512, D58101, C06015, AW367950, D80157, D51759, AL048680, AW178986, D45260, D58246, D59503, AW177734, AW378542, C14975, H67854, C03092, H67866, AA809122, D80314, AI535850, AI525923, AI535959, AW360855, AI525917, D59317, AA514184, AI525920, AI535686, AI525227, AI525235, AI525913, A67220, A25909, D34614, D26022, Y17188, AR025207, X68127, A62300, A62298, X67155, AB012117, A85396, AR066482, A85477, A86792, U87250, I19525, A78862, D89785, A84916, AJ132110, A44171,

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HMSOY61	3549	836082	1 - 377	15 - 391	AC005874, and AF134471.
HMSOZ02	3550	918388	1 - 1147	15 - 1161	AA005234, AA131795, AI247788, AI247795, AA678394, H62467, H61493, AA131845, and AA242846.
HMSOZ19	3551	958680	1 - 276	15 - 290	
HMSPA04	3552	922863	1 - 450	15 - 464	
HMSPA09	3553	948209	1 - 315	15 - 329	D80038, D81030, D80195, T03269, D80193, D59927, D51423, D59619, D80227, D80210, D51799, D80391, D80240, D80253, D58283, D80196, D80188, D80219, D80043, D80022, D80366, F13647, D59889, D51250, D59275, C15076, D80378, D80045, D80134, C14014, C75259, D50995, D80212, D80949, D81026, D59467, D59787, D80168, AA285331, C14227, C14429, D80164, D59502, D80166, D59695, D50979, D59859, D80268, D80269, D58253, T11051, AI910186, D80024, D57483, D59610, D81111, D80522, AW178893, D80241, T11417, C14331, D52291, AW177440, C14389, D51097, D51060, AW179328, AW378532, AW178775, D51079, AA305409, AW377671, AI905856, AW352158, D80014, AW178762, AW177501, AW177511, D51022, AW360834, AW352117, AW360811, AA305578, AW375405, AW378540, AW176467, AW377672, AW179220, D80251, AW378539, AW366296, AW360844, AW360817, AW375406, AW378534, D80248, AW179332, AW179023, AI557751, AW178905, D80064, AW177505, AA514188, AW352171, AW377676, AW352170, AW177731, AW178907, AW179019, AW179024, AW178906, AA514186, D80133, AW179020, AW360841, AW378528, AW178980, AW178909, AW177456, AW179329, AW352174, AW177733, AW178908, AW178754, AW179018, C05695, D80132, AW378525, AW367967, AW179004, AW178914, D80247, AW378543, AW177728, D80302, AW178774, AW178911, AW352163, D80258, AW178983, D80439, AW352120, AW178781, T48593, D58101, AW177723, AW378533, T03116, D51103, AA033512, C06015, AW367950, D80157, D51759, D58246, D59503, AW178986, AW177734, AI557774, AL048680, D45260, C14975, AW378542, C03092, H67854, H67866, AA809122, AI535850, AI525923, AW360855, AI535959, AI525917, D59317, D80314, AA514184, AI525920, AI535686, AI525227, AI525913, A67220, A25909, D34614, D26022, A62300, X67155,

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HMSPA41	3554	951971	1 - 626	15 - 640	
HMSPB03	3555	922853	1 - 556	15 - 570	AL133063.
HMSPB63	3556	861264	1 - 590	15 - 604	
HMSPE92	3557	948104	1 - 545	15 - 559	D59619, D80253, D59927, D80193, D80195, D51423, D80196, D80210, D80391, D80240, D80227, D80043, D58283, D80219, D81030, T03269, D80366, D51250, D80022, D59889, D80188, C15076, D80038, D51799, D80045, D59275, D80378, F13647, C75259, C14014, D50995, D80134, D81026, D59787, D59467, D80949, D50979, C14227, AA285331, D80168, D80212, C14429, T11051, D80164, D59695, D80166, D80269, D59859, D80268, D59502, D58253, AI910186, D80024, D57483, D59610, T11417, D81111, AW178893, D80241, D52291, C14331, C14389, AW177440, D51060, D51079, AA305409, AW179328, AW178775, AW369651, AW378532, AW377671, AI905856, AW352158, D51097, D80522, D80014, AW178762, AW177501, AW177511, D51022, AI557751, AW360834, AW352117, AW360811, AA305578, AW176467, AW378540, AW375405, D80251, D80064, D80248, AW366296, AW360844, AW360817, AW179220, AW375406, AA514188, AW378534, AW179332, AW377672, AW179023, AW178905, AW378539, AW352171, AW377676, AW352170, AW177731, AA514186, D80133, AW178907, AW179019, AW179024, AW177505, AW178906, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, C05695, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, D80132, AW179004, AW178914, AW378525, AW367967, D80302, D51103, AW177728, AW178774, AW178911, AW378543, AW352163, D80439, D80247, AW178983, D80258, AW352120, AW178781, T48593, AW177723, AI557774, D58101, T03116, C06015, AW378533, D80157, AA033512, AW367950, D51759, D58246, AL048680, AW178986, D59503, AW177734, D45260, C14975, C03092, H67854, H67866, AA809122, AW378542, AI525923, AI535850, AI535959, AW360855, AA514184, AI525917, C14973, D59317, D80314, D59474, AI525920, AI535686, D59551, AI525227, AI525235, AI525925, AC005280, A67220, A25909, D34614, D26022, AR025207, Y17188, A62300, A62298,

HMVAJ53	3558	728009	1 - 388	15 - 402	X67155, X68127, AB012117, A85396, AR066482, A85477, A86792, U87250, D89785, A78862, I19525, A84916, AJ132110, A44171, D88547, X93549, AR018138, X82626, AF135125, S69292, AF058696, I18371, AR008278, Y12724, AR064240, AB028859, AR051191, AR062871, S78798, I15997, A94995, X89963, AR037157, A80951, X92518, AR008443, AR051190, AR008430, A43601, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, A84772, A84776, A84773, A84775, X60736, A84774, I50126, I50132, I50128, I50133, AR023705, AR067731, AR067732, A58522, A91750, AR066488, A82595, AR016514, AB002449, AR060138, A45456, Y09669, A26615, AR052274, AR060385, A30438, AR066487, AR066490, A43192, A43190, AR038669, D88507, I18367, D50010, AB033111, Y17187, Z32749, A70867, A63261, AR016691, AR016690, U46128, X55486, AR008408, M60510, D13509, AR060133, AR054175, A64136, A68321, AR000511, I14842, U87247, AB012121, AB023656, AR008277, AR008281, U79457, AF123263, AR032065, X93535, and AR008382.
HMVAL74	3559	684574	1 - 518	15 - 532	AA504812, AF208502, L24051, and L12147.
HMVAT26	3560	789064	1 - 689	15 - 703	AF150282, AI276243, AW090199, AI022691, AI249193, and AI033035.
HMVAW08	3561	962197	1 - 280	15 - 294	AI580823, AA993162, AI472918, AI368750, AI453823, AA747678, AA888560, AW242191, AI350319, AA211927, AA725398, AA917463, AA742371, AA732102, AI218576, AII129408, AI474325, AA594345, AI310062, AI560613, AA056507, AA747426, AA905372, AI216359, AA405612, AA884092, AA879006, AI820689, AI150838, T32650, D20227, AA666388, R36652, AI372931, AI149128, AI963448, AA115748, AI290638, AW009341, AA524305, N32841, AI460321, AW076026, T24776, AA858246, T63577, AW118055, W31629, AW265569, AA676598, T63502, A85117, and AC005192.
HMVAY55	3562	574215	1 - 228	15 - 242	AI130740, AI131523, and AW016460.
HMVBA36	3563	698060	1 - 528	15 - 542	
HMVBD70	3564	735696	1 - 549	15 - 563	
HMVBD84	3565	782910	1 - 333	15 - 347	Z58983.
HMVBO01	3566	916072	1 - 665	15 - 679	AA416619, AA416601, D20128, AI368157, T49382, AI805024, AA600863, AA368659, AI572680, AW407679, AA984891, AA287823, H53109, AW407007, AA338474, AW021674, AA600127, AA804187, AA598497, AI281622, T57096, AA814748, AA658083, AA362439, N55296, AA846046, AA640563, AI567676, AA598579, H48017, AI745666, AA526665, F31670, AA055647, AA315052, AW243817, AW022796, AA548921, H47461, N21434, AI571094, AA353957, H52795, AI520984, AA587835, C14724, AA602664, AA364147, AA493546, AA126969, AA362440, T06339, AI679759, AA338238, AA457777, AW105463, AW273201, AW273146, AW392414, AA666195, AA143703, T15454, AI801479, AA668727, AA460880, AA604149, AI825901, AA831913, AA230221, AA665532, AA827490, F23221, AW162314, AA807704, AW162332, AI538404, AL036536, AI150934, AI221027, AI002863, AW439224, AA559208, AA338237, AI547110, N57782, AA488689, AA086042, AI031759, AI340941,

HMVBO34	3567	735873	1 - 1157	15 - 1171	H79323, AA847341, AL038533, H79004, AA364082, AI926876, T03928, F04021, AI249853, AA368329, AA010265, AA984763, AI049680, H86399, R94436, AA729004, AA525156, AA429481, AA133293, AI370470, AA706628, N58527, AA420424, AW029626, T29263, AA206113, AI888050, AC006370, AC006538, AC005180, AC005920, AC005537, AC002301, AC005574, AC004797, AC006317, AC006080, U91326, AL117694, AC002492, AL031983, AL035445, AL022315, AB020864, AL021391, AC005821, AP000469, AC003665, AC004738, AC010849, Z68276, AC006137, AC005212, AC005519, AL035086, AC006088, AC005325, M37549, AL022330, AF076450, AC000159, AL031427, AP000031, U73647, U85195, AC007421, AL031903, AC004777, AC005200, AL034421, AF003528, AC002377, AF196779, AC005746, AC007537, AL133355, Z99716, AC004032, AE000658, AL049869, AC005913, AC000353, AL109627, AC004525, AL022476, AC005837, AP000255, AC004854, AP000213, AP000135, AC005730, AP000114, AP000689, AC005071, AP000304, AP000260, AL033524, AC002400, AC006241, AC005066, AC005005, AB003151, AJ006995, AC004821, AC007746, AC006071, AL035588, AL031284, M63796, AC005736, X74984, D16583, AC004263, Z84723, AC002481, Z69890, AC004753, AC005331, Z92544, AC006950, AC007766, Z73979, AC006474, AF130247, Z98036, AC004997, AL031005, AL030995, AL050307, AC005048, Z84466, AC002554, AF165138, AL008987, AL096861, AL031670, AC007390, AC005099, AC004069, Z97181, AL023580, AL022577, AC005039, AC005585, AC005828, AL096701, AC005041, AL139054, AC004447, U89336, AC004905, AL031255, AL023799, M27835, AC004134, AP000046, AL031663, Z54072, AC005682, AC007387, AL031575, AF132952, AL121655, AC004895, AF075069, AC005305, AC005543, AC004592, AC005914, AC005406, AC006544, AL021393, AC004650, AL078460, AC002464, AL109628, AC002306, AL049694, AC002316, AL035587, AP000247, AC006509, AC005225, AC006482, AC007528, AL096775, AC005822, Z82198, AC005902, AC005089, AL117258, M33320, AL033527, AC006443, L47234, AC006252, AP002369, AC002980, AL049569, AP000099, U02047, AC007130, D31884, AL049538, AP000036, AC005256, AC002077, AC000070, AC000082, Z98948, AP000337, AC004922, AL033533, Z84489, AC005895, AL035652, AC004897, AL024493, AP000243, AP000203, AP000503, AP000215, Z98744, AC004451, AC003007, AF196969, AL049699, AL034347, AL031680, AL049643, AC004006, U91327, AL031280, AC002504, AC001231, AC005950, AF051934, AC005969, AL079342, AL031778, AL035685, AC012099, AC004832, AC005531, AC007462, AL049647, AC005747, AC005598, AL023284, AP000555, AC009516, AL021395, AF134726, AL132642, AC005209, AL049781, AC005768, AC005296, AC005284, AL049829, AC005632, and AC005323.
HMVBU26	3568	681408	1 - 516	15 - 530	AI498153, AC005578, AC004893, AL109758, AC005088, and AF030453.
HMVBV30	3569	861196	1 - 516	15 - 530	W48568.
HMVBW94	3570	883659	1 - 200	15 - 214	W16683.

HMVCG47	3571	719936	1 - 398	15 - 412	
HMVCO55	3572	868146	1 - 224	15 - 238	
HMVCR47	3573	661425	1 - 452	15 - 466	
HMVCT75	3574	715950	1 - 363	15 - 377	AL119355, AW392670, U46350, AL119319, AL119484, AL119363, AL119391, AL119497, AL119439, AL119335, AL119324, AL119457, Z99396, U46349, AL119483, AL119443, U46347, AL119522, AW372827, AW363220, AW384394, U46351, AL119444, AL119418, U46346, U46341, A81671, AR066494, AR060234, AR054110, and AB026436.
HMVCX10	3575	963828	1 - 461	15 - 475	N99112, AW452701, AA428994, and AA766700.
HMVCY46	3576	662311	1 - 359	15 - 373	AP000496.
HMVCZ64	3577	767714	1 - 350	15 - 364	AA323534.
HMVDA11	3578	861185	1 - 330	15 - 344	AB033030.
HMVDA30	3579	691608	1 - 306	15 - 320	
HMVDF10	3580	970480	1 - 348	15 - 362	AA306716, AI272308, N46300, AA533231, and AL122098.
HMVDF66	3581	915638	1 - 139	15 - 153	AA129862.
HMVDF83	3582	701907	1 - 344	15 - 358	
HMVDG76	3583	861179	1 - 409	15 - 423	
HMVDH06	3584	934778	1 - 113	15 - 127	
HMVDI38	3585	709243	1 - 769	15 - 783	N71412, W00789, N99736, T90278, N73838, and AL096710.
HMVDJ75	3586	710475	1 - 543	15 - 557	AL034384.
HMVDR49	3587	722581	1 - 367	15 - 381	AL034562.
HMVDT07	3588	952488	1 - 703	15 - 717	W38609.
HMVDU16	3589	904807	1 - 1328	15 - 1342	R89846, H61529, R89885, AA203599, H57092, AI567351, AI571551, AI919345, AI701074, AI590530, AI612759, AW103893, AI828731, AI554427, AI921248, AW082040, AI824557, AI745713, AI868831, AI569616, AI224992, AI475451, AI727711, AI476046, AW102785, AI249323, AI273142, AI281779, AW148320, AI950664, AI891157, AI682841, AI917055, AI433976, AI918655, AI269696, AW059837, AI590999, AI690312, AI632033, AI648663, AW103371, AI888953, AI520931, AI872545, AI873644, AI926790, AI640379, AI561299, AI697304, AW002342, AL079963, AW148716, AL036361, AI590120, AW088134, AI687065, AI923768, AI628292, AI867042, AI801325, AI335449, AI862144, AI289937, AL040243, AI251830, AI887151, AI636719, AI539153, AA640779, AI866608, AI886124, AW238730, AI612920, AI364788, AI633419, AI445165, AW082060, AW162071, AI815855, AW302988, AI269862, AI572676, AW161579, AL038445, AI610645, AI863477, AI800453, AL036403, AI680498, AW129202, AA613907, AI498579, AI866002, AI623396, AI696612, AI274508, AI284509, AI499285, AA508692, AI890833, AI805638, AW150578, AI564719, AI952360, AL045266, AI889376, AW403717, AI524671, AI249257, AI521012, AW051258, AI254251, AW132056, AI619502, AI571909, AI677796, AI802542, AI702433, AI591316, AI922901,

AI569583, AI799199, AI284131, AL036146, AI886753, AI366549, AW026882, AL041772,
AI783504, AI963068, AI620284, AW243820, AW268220, AL119863, AI909642, AI554245,
AL036274, AI250369, AI343059, AI433157, AI702073, AW023590, AW051107, AW088793,
AA494167, AI500523, AI349933, AI591074, AI537677, AW071177, AI362637, AI497733,
AI857296, AI287489, AI500039, AI476109, AL036214, AL036396, AA287231, AL038605,
AI439087, AI349645, AI349004, AI499920, AI874351, AI955917, AI862139, AI682720,
AL119791, AI282326, AW079159, AI609059, AI500662, AI921420, AW008048, AI673710,
AI590761, AI648684, AI251876, AW301409, AI811845, AL043326, AI499381, AI590645,
AI889839, AI500077, AL038565, AI284517, AI500706, AI280747, AI678443, AW130776,
AI612843, AI491852, AW169653, AI312428, AI281772, AW304497, AI925196, AW169671,
AI539771, AI340627, AI340582, AI800433, AI431424, AI816010, AI539711, AW193134,
AW071417, AI284020, AA427700, AI632408, AI680165, AW149227, AL045500, AI690480,
AI680388, AI572787, AI564247, AI282281, AL036759, AI242249, AW075351, D50977,
AI925156, AI539808, AL036802, AI589267, AW195968, AW068845, AI633308, AI469119,
AI630747, AI869367, AI475947, AI784252, AW087445, AI468872, AI608936, AI336575,
AW075413, AW088903, AA225339, AI885974, AI282504, AI439717, AI308035, AI433384,
AI538085, I48979, I48978, I89947, A08916, A08913, AL050393, A93016, I89931, I49625,
AF113676, S78214, AF090934, AF118070, AL137527, A08910, AL133093, AF090903,
AL133640, AL050149, AL050116, AF113019, AL110221, AL050108, E07108, AL137557,
AL110196, AB019565, AF113690, AL133560, AF106862, Y16645, AL096744, S68736,
AF104032, AR011880, AL050024, X63574, AL049464, AF118064, AL117457, AL050146,
AL133565, AL133606, AL117585, E03348, AF113689, AL137459, AR059958, AF158248,
AL049466, AL080060, AL122121, AL137550, A65341, Y11587, AL133080, AF113013, A08909,
X84990, AL122098, AL133016, AL080124, AF146568, X82434, AJ000937, AF113699, E02349,
AL133075, AF090896, AF090901, AF078844, AF090943, AF079765, AL122050, AF125949,
AL049314, AF017152, AL080137, U72620, AF091084, AL122123, AF113677, Y11254,
AF113691, U00763, U42766, U91329, AL049452, AF111851, AJ238278, AL133557, AF113694,
A58524, AF017437, A58523, AF177401, AL049938, AL117583, AJ242859, AL117460,
AF090900, AF125948, L31396, AL110225, AL117394, AL122093, L31397, X96540, E07361,
AL137283, AL050277, I03321, AF118094, AL137463, AL137538, AL050138, AL049300,
AL133113, AL049382, AF183393, AL117435, AL049430, I42402, Z82022, AL137648, A77033,
A77035, AL137271, AL080127, U80742, A03736, A12297, I09360, I33392, AF097996, X70685,
X93495, U35846, X72889, X65873, AF061943, AL122110, U67958, AL080159, AF087943,
X98834, AL110197, AL133014, A08912, AL050172, AL137521, AL049283, AL133072, AL133568,
AF067728, AR038969, E15569, AL050172, AF111112, AF026124, I17767, A93350, AF119337, AL122049, AR000496,
AL133077, AJ012755, AL133104, Y09972, AF026816, AL137556, Y14314, AL121111, E08631,
U39656, S61953, AL133104, Y09972, AF026816, AL137556, Y14314, AL121111, E08631,

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HMVDW09	3590	1 - 307	15 - 321	
HMVDZ70	3591	1 - 1205	15 - 1219	AW003291, AA927510, AA552415, AA210860, AW295775, AW450098, H14682, AW451140, AW450099, AA768028, AA323759, AA325907, R18955, AA588782, AA326001, AA736511, AA045961, AA768029, AW294299, R43963, AI923497, AI204450, AI609388, AI766770, AW075933, R50434, AA045960, T99804, AA325957, AW028853, R50435, AA573803, AW388521, H58575, AA190436, AW388475, AA299925, AI673040, AA534412, T99909, AI798620, AI743143, AI745610, AW167112, AI952808, AI751485, AA609752, AI743323, AL137509, and AF207550.
HMVEA91	3592	1 - 210	15 - 224	T93923, AA693730, AA693709, and AA780005.
HMVEF33	3593	1 - 325	15 - 339	
HMVEH72	3594	1 - 292	15 - 306	U69274.
HMWBE16	3595	1 - 243	15 - 257	
HMWBG29	3596	1 - 251	15 - 265	AL049844.
HMWBI47	3597	1 - 328	15 - 342	AW405398.
HMWBK07	3598	1 - 43	15 - 57	
HMWBK24	3599	1 - 204	15 - 218	AA630672, AA487621, AA579179, AA779013, AW148507, AA127426, AW270343, AA618452, AA299189, AA101689, AW085855, AI382825, AA080866, AI459245, AA410788, AL037554, H53828, AI056177, H96467, AA018283, AW179306, AI434695, R31790, AA553720, AA522642, AW341869, AI733856, AW439555, AA493136, AA114077, AA487888, AI343864, AA828062, AA572713, AA320966, AI421755, AA610219, AA297666, AP000556, AC006153, AP000557, AL121652, AC006511, AC005037, AC005548, AL021407, AC000085, AC007707, AL034402, AL080243, AC006539, AC009464, AC007270, Z98752, AC006313, AL034549, AP000042, AP000110, AC007671, AC006050, AL022320, AC008079, AC002468, AC004815, AI022476, AC007057, AL031670, AL020995, AC008038, AC011504, AC007193, AP000359, AL031666, AC005058, AC011311, Z99716, AF029308, AC006210, AF111169, AC005971, AC002310, AC007055, AC004890, AC005011, AC006012, AL008725, AC004823, Z97352, AC012627, AL049761, AC004205, U66059, AC000025, AL117355, AC008072, AC004030, AL050318, AC004686, AP000226, AL031311, AC007242, AC008014, AF196779, AC005369, AC005158, AC004894, AC005565, AL110292, Z98048, AL031589, AC004263, AC004148, AC005484,

Name	No.	Range 1	Range 2	Accession numbers
HMWBMO9	3600	1 - 381	15 - 395	AC007688, AL132992, AP000432, AC007546, AL109627, AC005900, Z85996, AC004966, AC004593, AC004028, AC009516, AC005581, AP000558, AC005796, AC005527, AC005632, AC003109, AC005412, AC002395, U95742, AC004020, AL049653, AC004386, AC005972, U95739, AC006277, Z97181, AL023755, AL021155, AL050308, AC010722, AC005844, AP000512, AP000511, AC006040, U91326, Z97056, U78027, AL079295, AC005529, AF117829, AC007565, AF134726, Z83826, AC004478, AL031577, AC006211, AC000364, AC005863, AP000087, AC002425, AC008040, AC003029, AC002492, AF141309, Z94056, AC007919, AC005839, AC007425, AC005243, AL035252, Z97054, Z93017, AL050341, AP000009, AL008718, U91318, AL109967, AC020663, AC005031, AC005291, Z78022, AL133245, AL022146, AC004073, AC006023, AC013248, AC006130, AC006576, AC007773, AL033397, AC004388, AC002558, AC004230, AC008101, AP000555, Z84483, AC004999, AC003003, AL022329, AC006285, AC016831, Z84469, AC004381, AL008582, AC006271, AC005730, AC005081, AL121694, AL121825, AC002115, and AL121654.
HMWBN56	3601	1 - 442	15 - 456	AL121534, H05681, T09309, N36636, AA853335, AA216518, AA115428, AA188847, AA404726, AF151803, and AL049839.
HMWBO07	3602	1 - 490	15 - 504	AA025913, H26505, AW080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
HMWBR86	3603	1 - 337	15 - 351	
HMWBV45	3604	1 - 349	15 - 363	
HMWCG29	3605	1 - 212	15 - 226	AA350169, AA207226, AL039395, AA359708, AA371441, T84879, AA019568, AA307901, R35023, R59278, AA371174, AA359314, AA359967, and AL050286.
HMWCQ09	3606	1 - 534	15 - 548	AI583448, AI252010, AI252880, N40760, AA601674, AA129746, H94878, AA533054, AA550850, AA207152, AA564479, AA084230, AI654305, AA602906, AC000353, AL132712, AC005567, Z84487, AC005360, AL035603, AC005737, Z84469, AC007731, AC004033, AL031255, AC005500, AC005531, AL008718, AP000355, AC006509, AP000553, AC007686, AL049539, D87675, AC002069, AL035659, AC007199, AL050306, AC005828, AC008127, AC004263, AL035405, AC006359, Z98200, AL008583, AC005740, AC005049, AC003667, AC005952, Z82190, AP000314, AC006006, AC005919, AC005899, AL035071, L47234, U91322, AL133246, AC005535, AC003070, AB003151, AL031685, Z99716, Z99943, AC005048, AC005233, AC002395, AC004851, AC004912, AL078595, AC007766, AL049709, AL031311, AL133485, Z93096, AC006111, U91321, AC007919, AC005399, AL109984, AF001550, AC002302, AF001548, AC000085, AL121652, AC005387, AC004583, AL008582, AC006112, AC005284, AL139054, AL110505, AL031447, AL049778, AL035447, AL080243, AC008115, AC004234, U91326, AL008630, AC006075, AF132033, AC006958, AF160252, AC007773, AC005596, AL022163, AC002163, AC006011, AP000194, AC002455, AC005237.
HMWCQ58	3607	1 - 585	15 - 599	AA814994.

1957

HMWCV08	3608	960083	1 - 287	15 - 301	R71737, AA904211, AI537108, AI354333, AA775188, AA341865, AI754066, AI554405, AI690497, R39329, AA604495, AA373107, AA598605, AA362791, AA372669, AI049630, AW054936, AC005225, AC006064, AP000688, Z99716, AC006241, AC005839, U91323, AF024533, AC005971, AC005920, AC007666, AC007793, Z93783, AC000052, AC002312, Z83845, AC006211, AC006449, AC005666, AC004019, AC004491, AL008637, AC004983, AF036581, AC005696, AF064090, AC005516, AL121658, AC005229, AJ003147, AL049829, U91321, AF134726, AF102137, AC000134, AF222686, AL109865, AC006312, AL049636, AC004526, AP000553, AF108459, L44140, AF111169, AL049830, AC004030, AL050348, AC004975, AL121694, AC004851, AL078593, AC008040, AC002350, AC002565, AC004814, AL049394, AF200465, AF053356, AL021939, AC005924, AL031279, AC006057, AC007488, AC005015, Z98200, AL035071, AC004771, AC004531, AF196779, U89335, AL022326, AL035086, AL023807, AL049776, AL031659, AL031311, AL031053, AC005911, AC004890, AC005787, AF045555, AC002470, AL049709, AL121782, AP000104, AC007938, AC005527, AC007225, Z49258, AL031597, AL033538, AC005899, AL049538, AL022313, AL132712, AB023048, AL031291, AL136295, AC005288, AL136168, AC007393, AC004874, AC005228, AC004929, AC006552, AC007707, AL135746, and AL031283.
HMWCX60	3609	531395	1 - 294	15 - 308	
HMWDD54	3610	932261	1 - 598	15 - 612	
HMWDD75	3611	800023	1 - 304	15 - 318	AI809080, AA379813, AI924837, AI609008, AI492061, AI080471, AA860342, AW273457, AA723182, AW170759, U46317, AI693837, R68374, AA579485, AI809655, AA173648, AI280048, AA173958, AA903598, AA187926, AI674623, AA653977, AA182901, F31240, AB020860, L46722, and U21855.
HMWDF88	3612	906769	1 - 349	15 - 363	H94922, R78249, AA448990, R14119, and N47060.
HMWDH23	3613	676216	1 - 397	15 - 411	
HMWDL52	3614	921603	1 - 368	15 - 382	AI248959, AI969858, AA210772, AI935498, AI023405, AW139513, AI914255, and AF161349.
HMWDQ83	3615	558021	1 - 331	15 - 345	M86156, AI383528, AI648449, AA708182, AW149204, AI565505, AI569929, AA830935, AF136415, AI915216, AW025607, AA635323, AI269112, AI301909, AI808701, AW275607, AI268340, N86439, AC004692, AC004389, AL022150, AF022141, AJ229041, AC008372, AC005164, AC006957, Z70272, AC004103, AC004217, AL049710, AL080273, AL031585, AL050311, Z83745, X63690, AJ006997, AL096770, AC009308, AC005900, AC011422, AL035563, AC005532, AL049834, AC000060, AL021026, AC006152, AL133247, AL022154, AC005191, AC000113, AC006384, Z96074, AL121127, AF121782, AC006972, AC005376, AL049734, AF064857, AC007656, AC007313, AL020989, AL118497, AC004506, AL049563, AL118503, Z97055, AL121657, AC009399, AL136297, AC006984, AC002507, AL021068, AL136130, AC002368, AF121899, AC005537, AC006153, AL031965, L42098, U85195, AL050308, AE000658, AE000065, AC005022, AP000161, AP000019, Z98052, AL023582, AC002366, AF001905, AC006083, AC004963, AC000065, AL022401, AL008633, AP000855, AC004981,

HMWDW60	3616	712083	1 - 302	15 - 316	AP000949, AL080277, Z98755, AL049647, AC006600, AL031121, Z82211, AC005245, AL021307, AC005483, AC006054, AC004941, AL049871, AC007563, AC006928, AC005393, Z95328, AF130247, AC005162, AC005993, AL049767, AC004843, Z98948, AC004384, AC004066, Z47556, AL022157, AF165138, Z84476, AL133512, AC007102, AC005915, AC002526, AF114156, AC010169, AL132708, AC006151, AC005536, AL035467, AC003013, AC005701, AP001067, AL121595, AL109759, AL035079, AC009501, AC005201, AF003627, Z82212, AL096704, AC003084, Z49918, AC006257, AC007567, AP000965, AP000459, AC005036, AC000029, AL121576, AF172277, AL031230, AF201337, AL035451, AJ011930, AC004993, AL031116, AC010382, AC005509, AL121838, AP000150, AC004038, AC007934, AF117829, AC005337, AC005999, AP000009, AL030998, AC010200, AC005070, AC003683, AC009479, AC006369, AC007298, Z82975, AC002545, AP000457, AL034403, AC004677, AL049549, AC004551, AP000704, D87010, Z83820, AL022577, Z83848, AL110505, AL008728, AC006976, AC009286, AF070718, AC006149, AP000022, AC007564, AF003528, D87009, AC008071, AF118808, AC002492, AC007128, AP000163, AC004074, and AC004020. AL137658, and AC005343.
HMWDY93	3617	573513	1 - 371	15 - 385	
HMWDZ73	3618	573754	1 - 221	15 - 235	
HMWDZ77	3619	573494	1 - 237	15 - 251	AA552576.
HMWEE04	3620	709334	1 - 312	15 - 326	AA158500, H50330, H43516, Z44332, Z60555, and Z65232.
HMWEG24	3621	781017	1 - 561	15 - 575	AI760719.
HMWEJ73	3622	767384	1 - 360	15 - 374	AW328173, AW152205, AW385309, AA279517, AI167428, AA452524, W65387, AI745322, T63422, AI826716, AI978981, AI818495, W61291, AA828979, AW410086, AA098876, AA364030, AA7773566, AA093538, AA098877, AA886992, AJ007398, AC007226, and AC007371.
HMWEK11	3623	967362	1 - 925	15 - 939	Z46095, AA458817, AA601434, AA340097, AA364315, AL008729, AC004510, AC004791, Z85986, AL022400, AL135783, AL049797, AC003101, and AP000962.
HMWEK39	3624	573604	1 - 235	15 - 249	AJ224170, AJ224166, AJ224169, AJ224168, and AJ224167.
HMWEM85	3625	783973	1 - 376	15 - 390	AA913138, AA423926, AA913371, AI223267, AI313130, AW451350, AW402718, AA825964, AA831628, AA954510, AW151296, AA813817, L44288, AW450780, AI470126, AW241985, AW117223, AI080479, AW169986, AA482277, AA482179, W07615, AA535546, AA469966, N50150, H92386, R88465, AI080018, and H02524.
HMWEP07	3626	953749	1 - 806	15 - 820	AA026434, AA026362, AW371765, and AB002340.
HMWES31	3627	861129	1 - 303	15 - 317	
HMWFC21	3628	752826	1 - 363	15 - 377	AC002398.
HMWFE01	3629	917150	1 - 122	15 - 136	

HMWFH47	3630	1 - 473	15 - 487	T86765, AA355300, AA262872, AA313285, W39312, AA373610, AA314442, AW327419, N28311, W26959, AW246991, AA147465, AI193121, AA143349, T85873, AA026924, W02364, AA355802, AW160522, W02991, H11880, C04326, N28909, AW162940, AA112862, AA147394, AW190189, AI369463, AW246218, AA079419, AA156348, and AF132959.
HMWFI54	3631	1 - 262	15 - 276	
HMWFO10	3632	1 - 177	15 - 191	
HMWFP33	3633	1 - 200	15 - 214	AC002454, and AL118497.
HMWFP60	3634	1 - 443	15 - 457	H71678, AA568314, AW419389, AI889696, AA602906, AI613389, AW151824, AA593501, AI271762, AA622801, AA502207, N73060, AA610433, AI791475, AL042373, AA152404, AW237905, AW023111, AI251429, AW117740, AA708678, AW177869, AA644090, F17700, AA747757, AA347969, AA077776, AI187148, AC005726, AC004750, AC004647, AC005046, AC002120, AL031670, AP000115, AC005412, Z94056, AL050348, AC005015, Z83844, AC006130, AC007263, U91323, AP000501, AF207550, AC005004, AC006006, AC005039, AL121603, AL109628, AC007240, AP000694, AF126403, AL049830, AC004975, AC003982, AL031283, AL049712, AC004832, AP000047, AC005695, AC000118, Z95115, AC006449, AC006146, AC005081, AP001056, AC007199, Z98742, AL096701, AL139054, AL096774, AC005209, AL132712, AL049569, AC005625, AC004139, AL035443, AC005696, AC005391, AC007845, AC007151, AL109627, Z84488, AP000305, AC002425, AC007934, U91326, AC005730, AC006487, AF108083, AL035681, AL031657, AC016025, AC004622, AC002347, AC004583, AP000120, AF109907, AL031281, AC003070, AL031846, AC007450, AC003108, AC006120, Z95152, AC002470, AC006271, AC005736, AC002365, Z82180, AC007114, AC007687, AC004858, AC005971, AC002059, AC006050, Z82180, AC007114, AL121658, AL031587, AL135783, L78810, Z83826, AC007283, AF196969, AC004966, AP001051, AC006530, AC020663, AL133163, Z84466, AC005291, AC006388, AJ246003, AC006101, AL035400, AP000556, AL133246, AL021393, AC005486, AC005193, AL034423, AC000025, AC008012, AC005684, AC005251, AC004887, Z85987, Z93241, AL031597, AP000167, AP000052, AC003043, AL109984, AP000552, AL024498, AC002302, AP000553, AP005220, AF038458, AD000091, AC007052, Z97181, AC004841, AC007993, AP000503, Z85986, AC005969, AC006960, AL035683, AP000555, AC005972, AL031295, D88268, U62293, AC005778, AC005531, AF129756, L44140, AC003688, AC005529, Z98752, AC004509, AC004253, AL049757, AC006236, AC005666, AC005057, AB020864, Z83840, U95742, AL022237, AC005940, AC003037, AC004765, AL049694, AC007546, AC006430, AC004601, Z98036, AC004791, AL021155, U91322, AB020866, AL009181, AL034582, AL022302, AC002375, AC005003, AC004813, AL121652, AC005943, Z84480, and AC005839.
HMWFQ91	3635	1 - 251	15 - 265	AA453990, and AI696031.
HMWFR11	3636	1 - 113	15 - 127	AL022318.
HMWFU05	3637	1 - 319	15 - 333	

HMWFU85	3638	659578	1 - 658	15 - 672	AA476558, AI744905, and AL035977.
HMWFW7 5	3639	727236	1 - 225	15 - 239	AC004878, AC006014, AC006480, AC005488, and AC005071.
HMWGC08	3640	959838	1 - 500	15 - 514	
HMWGF22	3641	861104	1 - 351	15 - 365	
HMWGG55	3642	920575	1 - 313	15 - 327	C16083, AR031682, and AR050617.
HMWGK95	3643	576885	1 - 362	15 - 376	
HMWGQ80	3644	575822	1 - 537	15 - 551	R69751, R70467, H80879, H80878, H69771, AJ011930, AL049835, Z95126, Z94277, Z84481, AL023279, AL022152, AC002071, AC010186, AC005303, AC004985, AL008706, AL034545, AC004825, AL035466, AC006007, and AL023579.
HMWGT07	3645	953454	1 - 946	15 - 960	AA292171, AII94002, AI291200, AA702786, AA935514, AW134516, AI570407, N52183, AI470179, AI301560, AI565962, AI263083, AA442075, AI262533, AI953743, AI992355, AA725905, AI458151, AI057281, AI350058, AI765586, AI300345, AI147626, N22467, AW083096, AI304886, AI818816, AI298938, N31044, AA442178, AA251570, AA411536, AI917092, AI984370, AI200607, AW241665, AW270856, AI298116, AI948774, AI693857, AI337892, AI216845, W92870, W35349, AW275375, R64446, AW340470, F09033, W92747, AI215812, R56870, AA854471, W32863, R63834, AI340931, AA573328, AA251002, R26470, R28480, H39705, AA737193, AA737108, H61908, and AI348059.
HMWGU64	3646	823460	1 - 415	15 - 429	
HMWGV63	3647	576854	1 - 224	15 - 238	AI872915.
HMWGX38	3648	709249	1 - 395	15 - 409	AW449350.
HMWGX50	3649	959293	1 - 1759	15 - 1773	AI823360, N76186, AW444682, AA199658, AI090198, AI374757, N64773, AI769715, N53704, W49490, AI026060, AI801785, AA961099, W49491, AI190947, AI287331, AI742199, AI769707, AI219372, R72390, R63399, R69629, R69723, AA064629, H18928, W73451, D20803, AA527475, AI187711, AI472100, W73390, H19367, AA064753, R63455, and AI093177.
HMWHA91	3650	684346	1 - 315	15 - 329	
HMWHB03	3651	861108	1 - 371	15 - 385	AA654781, AI754544, R73754, AW080185, AA584125, AA531580, R08918, AA845209, AA487726, AW081194, AA633762, AL037910, AW341978, AC004690, AC019014, AL080248, U78045, AC007981, AC006120, AC004953, U41069, AC004854, AL133238, AC008062, AL021978, AL022336, AP000556, AC004805, AC005377, AC009721, AF109907, AC008018, X92412, AL021579, AL031659, AC006343, AC005144, AL022312, AC006130, U85195, AC006006, AC003102, AL035464, AC012330, AE000658, AC006146, U52112, AL022313, AL049872, AC004590, AC008132, AC008079, AC004531, Y14768, AC005887, AF129756, AC005871, AP000550, AC005752, AL032821, AC004859, AL121591, AP000557, AL034548, AC005175, AC000381, AP000505, AC005800, AL021154, AL136295, AC004752, AC000094, AC007546, U85196, AC003663, AC007325, X69516, AP000240, Y15994, AC003950,

HMWHF58	3652	1 - 424	15 - 438	AL035417, AC004966, AL008723, AC008115, AC005043, AC006459, AC005353, Z77249, AL009172, AC004993, AD000813, AL049765, AC004033, and AC006478.
HMWHM30	3653	1 - 320	15 - 334	AI763355, AI911988, AW271204, AI419935, AW196356, AA831500, AA705874, AI609777, AI632367, AA825907, AI247514, AA897761, AA029912, AW088307, AA059231, AA883186, N72988, Z40302, W03289, H82082, W57671, H61166, AW264318, F01458, AI270229, AI932770, AW070350, F04303, AI318375, H93492, AI304462, AI270299, R93209, AW369598, and R07861.
				AP000333, and AP000173.
HMWHN70	3654	1 - 342	15 - 356	R19936, AI653255, AI261658, W78776, T85433, AA309754, H16895, AA132626, AA216686, AI636091, AA160797, AA312101, T69055, T35768, and AI347190.
HMWHS25	3655	1 - 323	15 - 337	AL031685.
HMWHZ50	3656	1 - 496	15 - 510	AC006427.
HMWIA18	3657	1 - 342	15 - 356	AA011418, AI264860, and AA699615.
HMWIF10	3658	1 - 441	15 - 455	AA056297, H86332, H81699, AA021646, AA828136, AA252828, AW366161, AW366143, AW366126, AW366153, AW366129, and AB032976.
HMWIL67	3659	1 - 771	15 - 785	
HMWIM26	3660	1 - 300	15 - 314	AW236288, AF045555, and AC005081.
HMWIQ47	3661	1 - 364	15 - 378	AB011167.
HMWIS96	3662	1 - 680	15 - 694	
HMWIT95	3663	1 - 422	15 - 436	AI160190, AA226732, AA232883, AA232882, AA948725, AI079958, AA767922, AI467979, W39443, U83194, and AF121856.
HMWIU48	3664	1 - 437	15 - 451	AA203110, AA465513, T96285, AI682937, and AA337698.
HMWIV48	3665	1 - 364	15 - 378	AC004913.
HMWIX21	3666	1 - 201	15 - 215	AA939053.
HMWIZ03	3667	1 - 283	15 - 297	AB011085.
HMWJB29	3668	1 - 342	15 - 356	T24065.
HMWJC76	3669	1 - 393	15 - 407	AA300776, AA341396, AI225022, and AF030428.
HMWJF10	3670	1 - 339	15 - 353	
HMWJG85	3671	1 - 509	15 - 523	AA102161, T68018, N86357, and AF144757.
HMWJH15	3672	1 - 211	15 - 225	
HMXAA03	3673	1 - 60	15 - 74	N24413, and AA325761.
HMXAA08	3674	1 - 213	15 - 227	R16911, AI023774, AC005509, AL135960, and AJ131016.
HMXAA39	3675	1 - 212	15 - 226	AI766637.
HMXAA56	3676	1 - 42	15 - 56	
HMXAB21	3677	1 - 122	15 - 136	AI908994, AI908999, AI909070, AI909069, N34111, AI908998, AA365524, AA143042,

HMXXAB69	3678	661849	1 - 136	15 - 150	AI908987, AA365526, AI909065, H69944, AI909066, AI908986, W37554, AA291887, AI909072, AL049386, and AL133036.
HMXXAC70	3679	964492	1 - 138	15 - 152	AL024509.
HMXXAC83	3680	780385	1 - 105	15 - 119	M85519, and AC005625.
HNEAB76	3681	674781	1 - 242	15 - 256	AC004620.
HNEAC51	3682	523767	1 - 422	15 - 436	AA701643, and AI033306.
HNEAJ21	3683	671370	1 - 341	15 - 355	
HNEAJ57	3684	735083	1 - 341	15 - 355	AW000777, and AL031005.
HNEAK41	3685	711557	1 - 227	15 - 241	
HNEAN61	3686	507302	1 - 200	15 - 214	
HNEAN85	3687	524222	1 - 384	15 - 398	AI709236, AI219619, F18454, and AC005531.
HNEBI66	3688	529168	1 - 249	15 - 263	
HNEBJ08	3689	958742	1 - 899	15 - 913	AI914747, AI371165, AI149061, AI869786, AI537814, AI111171, AC002302, AC005666, AL109798, AC004841, AC004938, AC004217, AL020997, AC004383, AF001549, AL035460, AC007216, AP000501, AC005529, AP000505, Y14768, AC004159, U62293, AL022165, U63721, Z95115, Z97630, AL049631, Z85996, Z84469, AC009516, AC000353, AC005057, AL133485, AC004634, Z84466, AC005911, AF129756, AP000049, AC007686, AC004817, AC004887, AC005332, AC006211, AP000311, U91323, AL049569, AC007057, AC005531, AC002115, AC002301, U95742, Z95152, AC005520, AC004491, AC000026, AC005355, AC004230, AL023807, AL034548, Z73359, AL031311, AP000689, AL031657, AC002059, Z95116, AC008044, AC007993, AP001065, AC004876, AC005581, AC005102, AL022721, AC005071, AC008018, AC005765, AF121781, AL035414, AP000215, AL022326, Z97056, AP000350, AL035685, AC004985, Z97053, AC005871, AC004000, L78810, AC005005, AC006101, AC005803, AL049699, AL022163, AB003151, AC004765, AC002425, AL109984, AC004020, Z98051, AC009247, AC005585, AL035659, AL096763, AC004966, AC004685, AL049872, AC008372, AC004750, L44140, AC005527, D87675, AC007384, AC002430, AC002544, AP001052, AC002369, AC004832, AP000039, AP000107, AC005280, AL022323, AC002073, AC006450, AL133163, Z99128, AL031650, AC005620, AL023575, AC004228, AC004991, Z98750, AC006538, AP000047, AL096791, AL021393, AC002299, AC005722, AL132987, AC005815, AC005037, AF107885, AP000498, AC003982, AC005200, AC005777, AC007421, AC005261, AC005086, AC004656, AL034417, AC002477, AC006057, AL049856, AL008721, AC002551, L78833, and AC005952.
HNEBJ35	3690	529576	1 - 303	15 - 317	
HNEBJ48	3691	919274	1 - 515	15 - 529	
HNEBM07	3692	954173	1 - 637	15 - 651	

HNEBY19	3693	527894	1 - 341	15 - 355	
HNEBY26	3694	527891	1 - 318	15 - 332	
HNEBY30	3695	523571	1 - 316	15 - 330	AA047509, AA649294, AA743885, and AA714682.
HNEBY32	3696	527889	1 - 392	15 - 406	AI902200.
HNEBY34	3697	507211	1 - 483	15 - 497	
HNEBY44	3698	773793	1 - 422	15 - 436	
HNEBY46	3699	527887	1 - 395	15 - 409	AC006006.
HNEBY48	3700	527895	1 - 308	15 - 322	AL021977.
HNEBY71	3701	527883	1 - 245	15 - 259	
HNECD65	3702	861062	1 - 511	15 - 525	
HNECE07	3703	954094	1 - 370	15 - 384	AI017707, AI733633, and AC006001.
HNECE14	3704	927590	1 - 94	15 - 108	
HNECF59	3705	507208	1 - 102	15 - 116	
HNECF76	3706	506532	1 - 326	15 - 340	
HNECI57	3707	529873	1 - 165	15 - 179	
HNECK47	3708	720588	1 - 331	15 - 345	
HNECK66	3709	932501	1 - 374	15 - 388	AC002073.
HNECK67	3710	527100	1 - 398	15 - 412	AA836909.
HNECK83	3711	935045	1 - 684	15 - 698	
HNECL71	3712	527810	1 - 221	15 - 235	
HNECM64	3713	861031	1 - 289	15 - 303	T79573, AA525832, AA381390, AI207738, AA503018, AL039801, T79503, AA601713, AI862790, AA319995, AA856945, AA381962, AI434365, H23540, AA223512, AA297145, AA629852, AA765678, AA487892, AA829576, Z84487, AL050348, AJ229041, AL136295, AL133312, AC002302, AL022336, AC004638, AC004098, AC005005, AC004910, AC005030, Z93016, AC004526, AC003003, AL031680, AC002389, AC005037, AC002378, AC007226, AC006160, AL031668, AL121655, AL008583, AL031602, AL035071, AL121658, AC002390, AC000159, AC005378, U73023, AC002350, AP000511, AC000403, AC001231, AL121653, AC004882, AL050307, AB023051, U47924, AL009181, AC005212, Z82208, AF196969, AC05102, AC006509, AC007537, AC004212, AC006064, AF015720, AC006512, AP000512, AC004922, AL031281, U52112, AL022396, AL031230, AC007159, AC005859, AL034553, AC007308, AC005874, AF134471, AC004865, AC002470, AC007283, AC002544, AC004985, AC000113, AC006030, AC005529, AC012083, L48038, AC005225, AC007731, AC005500, AL031432, AC007868, AC007690, AC005332, AC005089, AL024507, AC006449, AP000504, AF129756, AC004382, AC005344, AL022238, AC004448, AC005399, AC006065, AC002375, AC006262, AD000812, U91326, AD001527, AF111168, AB003151, AC006581, AC004491, AL049636, AC004694, AC006084, Z73417, AC005881, AC011311, U80017, AC005386,

HNECO69	3714	861068	1 - 154	15 - 168	AF091512, AC006059, AC004148, AC003982, AL024498, Z83844, AJ003147, AC000026, AL008719, Z93023, AC005912, AL096701, AC005071, Z68164, AC007276, AC006088, AL008715, AC005244, AL022476, AL049869, and AL049712.
HNECR93	3715	529868	1 - 287	15 - 301	AC004974.
HNECS77	3716	527511	1 - 487	15 - 501	AI907658, and AW176803.
HNECT70	3717	958356	1 - 289	15 - 303	
HNECV31	3718	466977	1 - 290	15 - 304	
HNECV66	3719	575633	1 - 322	15 - 336	
HNECW09	3720	968378	1 - 482	15 - 496	AC004034, and AC004235.
HNECW20	3721	527508	1 - 493	15 - 507	AC008928.
HNECW35	3722	855430	1 - 409	15 - 423	AW407366, and AA278963.
HNECX77	3723	507305	1 - 350	15 - 364	W60940, AF019563, and AD000833.
HNEDD27	3724	527589	1 - 377	15 - 391	AC004797.
HNEDD80	3725	507186	1 - 399	15 - 413	AI692616, AL080276, AC004829, AL021921, and U95738.
HNEDD90	3726	789187	1 - 351	15 - 365	
HNEDE48	3727	721895	1 - 265	15 - 279	
HNEDE59	3728	527060	1 - 264	15 - 278	
HNEDF71	3729	572390	1 - 120	15 - 134	
HNEDG11	3730	967643	1 - 243	15 - 257	AD000864.
HNEDG35	3731	790570	1 - 540	15 - 554	
HNEDG56	3732	746708	1 - 325	15 - 339	
HNEDH54	3733	527505	1 - 318	15 - 332	
HNEDH96	3734	697747	1 - 678	15 - 692	
HNEDI80	3735	573138	1 - 353	15 - 367	AC005306.
HNEDK04	3736	923910	1 - 139	15 - 153	AA299540, AC000159, and AB007864.
HNEDK16	3737	702570	1 - 433	15 - 447	AA299540, AW363833, AC000159, and AB007864.
HNEDK22	3738	527503	1 - 365	15 - 379	
HNEDK74	3739	765880	1 - 225	15 - 239	
HNEDN42	3740	527499	1 - 179	15 - 193	AC005222.
HNEDO95	3741	573136	1 - 258	15 - 272	
HNEDQ51	3742	527816	1 - 321	15 - 335	
HNEDQ68	3743	586485	1 - 1038	15 - 1052	AA525825, AA868356, AW105002, and AW022273.
HNEDR48	3744	683470	1 - 153	15 - 167	
HNEDS03	3745	925091	1 - 113	15 - 127	
HNEDS18	3746	954586	1 - 140	15 - 154	

HNEDS29	3747	703032	1 - 221	15 - 235	
HNEDU01	3748	909832	1 - 403	15 - 417	
HNEEA41	3749	868102	1 - 264	15 - 278	
HNEEB62	3750	573185	1 - 441	15 - 455	
HNEEB84	3751	781940	1 - 211	15 - 225	AL133037.
HNEEC81	3752	844318	1 - 352	15 - 366	AL031729.
HNEED12	3753	893698	1 - 583	15 - 597	AI284640, AI246796, AI133164, AI434695, AI564185, AI431303, AL119984, AI334443, AI286356, AI053672, AI471481, AI754955, AW408717, AA720702, AA488746, AA491814, AI587583, AI587565, AA602557, AL119691, AI300167, AL041706, AW162049, AW301350, AI929531, AI499938, AI281881, AW303196, AW440299, AW274349, AL079645, AI537955, AI569086, AL041146, AI919265, AI037897, AA171941, AI753037, AI064864, W79504, AI366902, AW008317, AI064729, AA680243, AI192631, AL038842, AA177061, AI371070, AL046898, AA713815, AI633025, AL138455, AW419262, AA579063, AI282336, C75026, AW021583, F36273, AA587256, AI446464, AA502155, AI761471, AI732120, AA632648, AA226153, AI674873, AI469172, AI148277, AI339850, AW270270, AW238278, AI251021, AI334435, AF150152, AI962050, AI143242, AA758934, C75034, AI707788, AI610159, AA507547, AW022379, AW168342, AA362573, AL138265, AI679782, AW272758, AI871722, C06303, AW023270, AA610491, AI432270, AL048925, AW162489, AI919029, AW079135, AL120687, AA714453, AA559290, AI567674, AI079910, AI270476, AA581903, AW007759, AL038474, AL120959, AW273218, AA386111, AA302963, M77858, AI434311, AL045053, AI830390, AA177063, AI801701, AI654525, AL039958, AI928898, AI110760, AI754653, AA708678, AW073470, AA631507, AL046205, AA569387, AI358571, AI367975, AI473943, AC005994, AC005393, AC009516, AC005940, AC005358, AC006263, AC007227, AL031311, AC005529, AC006277, AC006241, L44140, AC003003, AC005666, AC004491, AC007999, AL135744, AL033392, AP000961, AC000961, AC005231, AC005778, AC006536, AL133448, AP000501, AL132994, AC005799, AL022323, AL035494, AL008721, AP000152, AL049843, AF196779, AL008718, D84394, AC004472, AC005105, AC006088, AC002429, AL132777, AC004596, AC005046, AC008039, AC005701, AF196969, AL117258, AL008582, AC004992, AL023581, AC005695, AC004492, AC005387, AC002126, AC005154, AC005971, AF067844, AC002996, AC006285, AL096707, AP000049, AC005562, AC003681, AC005740, AL031770, AC002404, AL049539, AP000311, AC005839, AL080274, AC002312, AL049776, AL021391, AC005180, AF001550, AC005914, AC000047, AL022322, AL021453, AL031597, AC005696, AC008125, AL132987, AC004158, AP000555, AC005244, AL109628, AC016025, AC006449, AC005212, AC004650, AC003101, AC007066, AL031650, Z69666, AC004386, Z97054, AC002425, AL031668, AC006017, AC020663, AP000509, AC004825, AC006048, AC008044, AC006120, AC004690, AC005531, AC005828, AC003085, AC006138, AC004263, AL031848, AC008055, AC004253, U85195, U91326, AL133512, AC006128, AC004652, AC005412, AC007649,

Clone	No.	Range	ID	Range	Accession numbers
HNEED48	3754	1 - 563	668747	15 - 577	AL034418, AC007564, AC007068, AC002094, AL022476, AC002418, AL035411, AC005899, AC002350, AL035410, AL021808, AC022328, AC007226, AD000092, Y18000, AC005702, AC004453, AC005632, AL021808, AE000658, AC002430, AL049872, AP000046, AF001549, AL031673, AL121825, AB020865, AL050318, AF029308, AC007664, AC004987, AJ003147, AC002115, AC007384, AL034549, AC000025, AL139054, Z99716, AP000692, AC004945, AL096701, AJ006997, D87675, AF091512, AC000041, AC008119, AC005969, AJ011930, AC002470, U62293, AC006057, Z97195, AC008056, AC006111, Z83844, AC006312, AL035681, AC004638, AL035460, AL035458, AC006511, AC006515, AC006480, AP000513, AC007731, AL022722, AC005500, AL021578, AC005081, AC007308, AL031295, AC008062, AC005069, AC003007, AC005678, AJ246003, AC004975, AL078477, AC005057, AC005207, AC006050, AC004990, AC006509, AC005209, AC005255, AC010168, AL049745, AC007182, AB001523, AL020997, AC004590, Z98200, AL122020, AC006928, AC006064, AL121603, AC005988, U95090, AL009029, AP000550, Z97630, AC004024, AC004047, Y14768, U78027, AC004859, AC005031, Z74739, AP000550, Z97630, AC010382, AC004217, AC004745, AC006292, AC005037, AC007363, AL022238, AL079333, AC010382, AC009069, AL133243, AF129756, and AC002369. AF109907, AL035659, AL031257, AC009069, AL133243, AF129756, and AC002369.
HNFAA13	3755	1 - 460	667712	15 - 474	W26285, H51850, R00469, and AC004782.
HNFAA80	3756	1 - 398	781578	15 - 412	
HNFAA83	3757	1 - 299	530295	15 - 313	
HNFAD95	3758	1 - 726	784714	15 - 740	H83668, H85578, AA054359, H86619, AA013002, and Z82244.
HNFAE07	3759	1 - 347	861069	15 - 361	
HNFAF40	3760	1 - 305	861021	15 - 319	
HNFAG69	3761	1 - 163	530349	15 - 177	
HNFAH45	3762	1 - 370	662053	15 - 384	
HNFBS51	3763	1 - 206	530064	15 - 220	
HNFBT11	3764	1 - 218	967784	15 - 232	C05828, AW363343, C05733, W48575, AA581240, AI299442, AI871940, AA121886, AI869406, AI133355, AI133609, AA360082, AI015119, N32218, AA669165, AI282488, AA209438, AI611960, AI583255, AI886467, AA883595, C05928, AA601356, AC005318, AC008015, AL133243, AL096703, AC005179, AC005666, AC007066, AL049697, AC002044, AC007016, AC002094, AC007385, AC005484, AC005291, AC007051, AC007395, AP000306, AC004019, AC005622, AL035067, AC005484, AC004963, AF217403, AD000812, AC002126, AC005251, AC002357, AL034548, AC006571, AC004755, Z97876, AL031123, Z84488, AL117339, AC004447, AC008372, AC002565, AP000047, AC004659, AC006011, AC005409, AC005412, AC006479, AC004049, AP000557, AC005838, U91328, U95742, AP000115, AC005003, AL049749, AC005231, AL035405, AC009399, AC003071, AC003072, AL109952, AC004913, AC004655, AF047825, AC005358, AC007308, AC004382, AL031075, AL031120,

HNFBU53	3765	861015	1 - 347	15 - 361	AC005304, Z98257, AC004924, AC004099, AC005913, AC007367, AR036572, AC006120, AC004582, AP000359, AC005095, AC005911, AC007376, AL109827, AC002287, AC005803, AC004854, AP000501, AC006511, AL022726, AC003049, AC004517, AC005829, U96629, AC005255, AL022315, Z83732, AC004929, AC004622, D84394, AC007216, AC009247, AC003065, AC004837, AL117338, and AF053356.
HNFCI32	3766	699706	1 - 124	15 - 138	
HNFCI41	3767	861014	1 - 723	15 - 737	AC004126.
HNFCI77	3768	761390	1 - 428	15 - 442	F15202, AA297666, AA621381, AA715814, AI244157, AC002468, AJ006997, AC004099, AC007774, AL024507, AL034417, AL049829, AP000194, AC005844, AC006241, AL133245, AC004953, AL133246, AC005730, AC004019, AL121652, AC006387, AC007934, AC006441, U85195, Z98304, AE000658, AL133244, AC002456, AL139054, AL022323, AL035420, AP000116, AC000052, AC004531, AC004967, AC005231, AL020997, AC005668, AC002365, AP000313, U91326, Z83844, AP000117, AC007055, AP000050, AL096701, AC004453, AC004209, AL109984, AC007227, AC005037, AL031228, AC006371, AC004383, AL031186, AP000689, AC004626, U91323, AF134726, AC005264, U96629, AB003151, AF196779, Z82198, AC005914, AC004686, and AP000501.
HNFCL68	3769	585328	1 - 108	15 - 122	AL022098.
HNFCS04	3770	927836	1 - 405	15 - 419	AA743885, AA714682, AA748749, AA047509, AA969497, and AA649294.
HNFCT27	3771	529964	1 - 397	15 - 411	AL079300.
HNFCT67	3772	927833	1 - 217	15 - 231	
HNFCW14	3773	955293	1 - 367	15 - 381	AC002091.
HNFCY33	3774	861005	1 - 485	15 - 499	
HNFDC21	3775	529867	1 - 298	15 - 312	
HNFDC91	3776	496241	1 - 503	15 - 517	
HNFDJ17	3777	960239	1 - 451	15 - 465	H67844, and AL031282.
HNFDK40	3778	854017	1 - 475	15 - 489	AC006441.
HNFDN04	3779	537317	1 - 450	15 - 464	N24949, and N21519.
HNFDN41	3780	712571	1 - 375	15 - 389	Z98884.
HNFDN89	3781	787085	1 - 173	15 - 187	AC006285, AC007845, and AC016025.
HNFDO81	3782	537341	1 - 256	15 - 270	
HNFDO84	3783	575347	1 - 425	15 - 439	AA651846, AA287087, AC007193, AL008721, AC007228, and AC007283.
HNFDP09	3784	719215	1 - 374	15 - 388	AC007308, AP000557, AP000556, and AC004983.
HNFDR35	3785	527500	1 - 208	15 - 222	AL008729.
HNFDR83	3786	537343	1 - 264	15 - 278	
HNFDV41	3787	537337	1 - 407	15 - 421	

HNFED22	3788	1 - 103	15 - 117	
HNFED43	3789	1 - 703	15 - 717	AI692459, AW025274, AI912748, AI625788, AW135287, AI268722, AW137005, AI983277, AW235753, AD000864, and AC002133.
HNFEF43	3790	1 - 331	15 - 345	AA248418, AA009955, R98152, AA031428, AA592915, AI732656, AI904111, AC002485, AC004897, AL021786, AC004935, AC004015, AC003682, AL035089, AC006145, AC008168, AC005533, AC008014, AC002357, AL049613, Z68331, AP000403, AL031782, AL035424, AL049734, and AC005378.
HNFEF83	3791	1 - 502	15 - 516	
HNFEF95	3792	1 - 814	15 - 828	
HNFEG09	3793	1 - 265	15 - 279	
HNFEG31	3794	1 - 384	15 - 398	AA490873.
HNFEH12	3795	1 - 134	15 - 148	AF196970, and AF115549.
HNFEI12	3796	1 - 95	15 - 109	
HNFEK33	3797	1 - 516	15 - 530	AW340916, AA766845, L81825, and AC004749.
HNFEM76	3798	1 - 426	15 - 440	
HNFEM86	3799	1 - 234	15 - 248	
HNFEN20	3800	1 - 463	15 - 477	
HNFEO61	3801	1 - 232	15 - 246	AA777291, AI476328, AC004409, AC004825, AC004081, Z98742, AC004207, AP000515, and AB014083.
HNFER89	3802	1 - 361	15 - 375	
HNFES44	3803	1 - 350	15 - 364	
HNFEU62	3804	1 - 74	15 - 88	AC004914.
HNFEV41	3805	1 - 207	15 - 221	AI954737.
HNFEV66	3806	1 - 99	15 - 113	
HNFFB21	3807	1 - 425	15 - 439	
HNFFC21	3808	1 - 401	15 - 415	
HNFFD88	3809	1 - 331	15 - 345	
HNFFF81	3810	1 - 55	15 - 69	
HNFFG79	3811	1 - 178	15 - 192	
HNFFH03	3812	1 - 461	15 - 475	R23542, H24230, R14460, Z42321, and H24229.
HNFFH04	3813	1 - 266	15 - 280	
HNFFJ48	3814	1 - 379	15 - 393	AL043721, F24284, AL043756, AI561335, AI880168, AI697353, AA715270, W25284, AI865905, AL120008, T62712, AW169397, AL133723, AI914706, AA669416, AW238278, AI305547, AI307201, T11542, AA548137, AI473090, R65801, AI371070, AI138344, AW055226, AW088846, AA019707, AW238016, AI205181, AL118991, AA669961, AI082510, AI291823, AI312790, AI039809, AI336054, AI689385, AI355587, AA580662, AW327961, AW327960,

HNFFK15	3815	1 - 194	15 - 208	AI445436, AI926846, H13868, AP000402, AC007284, AP000159, AC004066, AC005972, AL035072, AC007228, AL049872, X87344, AC006251, AC005772, AC000358, AL008636, AC005968, AC005295, AC003003, AP000330, AL024474, AL109628, AC005304, AC003046, AC007043, AC007057, AP000244, AL117338, AL035494, AL049591, AC007298, AL121757, AP000697, AC007012, AF003626, AC004664, AC002456, AC006001, AC007370, AL022322, AP000173, AC004695, AC005751, AC007076, AC002523, AL050305, AL133289, AF001549, AC003962, AC005146, AC008055, AL035659, AC007656, AC008080, AC004499, AC006458, AC005599, U62317, AC005846, AC008125, AC002368, AC004976, AL035695, Z82194, AC007738, L78810, AC004021, AC008498, AC004626, AC007731, AC005500, AC003048, AL031054, AC006299, AL022098, AL079300, AC004000, AC002430, AC000111, AL034384, AC007384, AC007437, AC003089, AC007376, AC006368, AF117829, AL121578, AC006197, AL035698, AC004616, AC003971, AC003664, AP000056, AP000171, AL021329, AF124731, AL035420, AC004544, U85196, AP000097, AC006531, AL033397, AL031588, AC006948, AL022163, AC004593, AL009172, AF196970, AC005244, AC008126, AL080274, AC005296, AC005155, AC006213, AL031785, AC004106, AC007685, AC002483, AL031584, AL121694, AC004897, AL033504, AF124730, AC003686, AL133244, AL136363, AC009275, AC005387, U95740, AC005161, AC004072, AP000477, AC006343, AL002045, AL136363, AL049636, AL078639, Z94721, AF196969, AC007934, AC010200, AL024508, AC002045, AC018769, AL049832, AC007091, AC004081, AL049081, AP000355, AP000127, AP000205, AC007092, AL096757, AC007358, AF029308, AL031228, AL031289, AC004041, AL049041, AC004448, AB023054, AF064863, AL050317, AC006480, AL132994, AC004041, AL049761, AC007065, AC007567, AC005325, AC008154, AC007099, AC006367, AP000553, AC009516, AC006928, Z98256, AL137100, AC003965, AC009498, AL033392, AP000086, AF015262, AC007262, AL050348, AJ229043, Z97989, AC005018, AC004605, AC007159, AC007559, AC007566, AL049633, AC007564, and AF064866.
HNFFK36	3816	1 - 303	15 - 317	AC007283.
HNFFK61	3817	1 - 351	15 - 365	AA489127, AA279641, AC006026, AF184614, U57835, U61240, U61244, U60972, Z95331, AC005529, AC006026, AL008726, AL031985, AC000353, AC004876, AC005082, AL023882, U85195, and AC005527.
HNFFM25	3818	1 - 798	15 - 812	AA100734, H70404, AI807620, AW170393, AI148673, AI700503, AI951537, AI372906, AI978898, AI355972, AA577153, AA683135, AI418406, AW027328, AA804574, AI149104, AA040055, AI375779, AW083779, AA948638, AA922646, AI421626, AI086894, H41004, W67241, R80971, H45696, AA454614, AI336304, R50491, R70331, H04863, H48164, H50348, R71660, AA350063, H14248, AI000283, AA158079, AI873952, AA935502, H04767, AA488228, R71772, AI185581, H03390, AW085023, AA953342, N30114, AA330664, AA350336, T47929, R71761, AA350333, AA380748, R80075, AA350335, AI498026, H52808, AW247533,

HNFFO61	3819	742049	1 - 329	15 - 343	AI355531, N92553, AA366768, AA349208, H04088, W42753, AI362566, AA488175, H21988, AA364212, AA313213, AI372422, AA974799, R48548, W67185, R79976, AA380728, AI611852, N42220, H19508, AW381755, AA455790, R24504, AA890444, R71813, R35880, R35881, R90881, R85186, H74174, AA323925, AA188900, AA350334, AI910306, H67210, AA317877, AI372424, R71760, R48639, W86716, W42696, AA322360, H30234, AB023051, AP000512, AC006165, AF117234, AF085357, AF089750, AF145044, U60976, U60977, and U90435.
HNFFO76	3820	727306	1 - 323	15 - 337	AI631960.
HNFFR05	3821	860851	1 - 406	15 - 420	AA659360, AA689255, AA862243, AW338370, AA773162, AL120343, AA167792, AA833896, AA833875, AA494263, AA503119, AA594072, AI910608, AI950671, AA568494, AI174535, AW002777, AA608612, AI733856, AA828062, F15883, AI754653, AW082076, AA129219, AA608588, AI114827, AA251356, AI581486, AA631933, AW070703, AI601229, AA355083, AI300167, AI306232, AA480792, N71033, AW118304, AA188664, AA847096, AL120227, AA826302, N33867, AW402688, AI500453, AI537041, AA678565, AA635368, AI362415, AI364809, AL134608, AA613624, AA338167, AA492105, AA984114, AA811208, N84446, AA640410, AA640430, AA358515, AI245679, AI054354, AA489766, AA613954, AW167374, AA522642, AI924855, AI499954, AI865196, W03818, AA689285, AI583466, AI251576, AL038971, AA843779, R08918, AW274191, R44855, AW150476, AA421078, AI499588, AA054055, AI708005, AA346458, AW195988, AL134519, AA581247, F28352, H67863, AW001268, AA808186, AI469599, AA354259, AI088162, AI536625, AI223700, AW265244, AA654661, AA133332, AI745335, AI357551, AW265009, AI597580, AA7453373, AA503298, AA594043, AI610737, AL042927, AA780784, AA071393, AA677671, AI040051, AI188390, AI282793, T07769, AL041894, AA904211, H18914, AA972809, AA984171, AA340602, AI270370, AA679194, N22037, AI253382, AW265186, AL042225, AL135352, AI978718, AI054414, AI914879, AC002331, Z92542, AC004020, AL035685, AC005722, AL021154, AL133445, AC005520, AC007546, AC004216, AL031734, AC005701, AC005510, AL079305, AC002558, AC005071, Z85996, AC009721, AC005670, AL034376, AF001548, AC004976, AC004253, AC007590, AC007746, AC009509, Z78421, AB026898, AL035106, Z98886, AC005747, AL079333, Z82198, Z85987, AC003101, Z97353, AC004000, AL035652, AC005279, AC005751, AC005317, AP000260, AL034375, Z98941, AL049760, AL109754, AL035448, AL035400, AL049691, AP000499, AC005091, AL008709, AC007278, Z82195, D83729, Z99756, AP000099, AL024508, AF015262, AC002070, AJ229043, AC007879, AP000146, AC002351, AL035694, AL034371, AC006549, AC006960, AL031280, AP000036, AC006925, AC007695, AC006241, AF130248, AL035658, AL031294, AC007159, AC005192, AL031055, AL021528, AC007221, AC003664, AC005668, L78810, AL009029, AC010206, AC006571, AL049759, AP001051, AC004912, Z97196, AL022324, AC003667, AC005026, AC006043, AC008119, Z97192, AC004884, AC005296, AC006315, AC006315, AC005251, AC009225, AC007514,

HNFFR46	3822	574618	1 - 149	15 - 163	AC005873, AL035587, AL023653, AC004125, AC006080, AL008712, AL049773, Z75741, AC008125, AL049712, AL034400, AL078584, AC004099, AC005029, AC006333, AC004865, AC007682, AL022394, AC007738, U91319, AC003958, AF111167, AL049792, AC007277, AL031117, AC005796, AC004673, AL031673, D16583, AL022334, AC005291, AC005377, AL079301, AC002302, AL133500, AC003086, AL022159, AC007540, AC008041, AJ229042, AL031778, AC007664, AC002551, AC006560, AP000469, AC018767, AC003663, AC004526, AC007240, AC003689, AC007559, AC008040, AL022312, AL031665, AC006126, AC007774, AL049829, AL008720, AC005900, AC007773, AL132800, AC002054, AC002472, AL050326, AL080245, AB020866, AC006977, Z98749, AL022337, AL050333, AC006132, AL031666, AC006531, Z95114, AC002407, AL031293, AC004538, AL031595, AC006984, AC005363, AP000503, AF134726, AC005215, AF002223, AC005099, AC004106, AC002460, AL121578, AP000069, AP000502, AL133244, AC006020, AC005746, AC008101, AC006384, AL031466, AC005243, AC006088, AC010200, AC005224, AC006972, AL023882, AC016830, AC004810, Z95115, AL035690, AC007539, AF048729, AL031277, AL133247, AC005041, AC006323, AL035425, AC007649, AC004953, AP000076, AC000088, AC000082, AC000071, AC004905, AC005725, AL079303, AC005018, AC003969, Z98949, AL135744, AP000032, and AC005412.
HNFFS14	3823	558192	1 - 296	15 - 310	M89651.
HNFFS23	3824	574677	1 - 300	15 - 314	AC004782.
HNFFS46	3825	574669	1 - 294	15 - 308	AL078644.
HNFFS96	3826	860904	1 - 88	15 - 102	
HNFFT30	3827	574616	1 - 425	15 - 439	AA345805, AB007864, and AC000159.
HNFFT62	3828	574623	1 - 390	15 - 404	
HNFFT71	3829	574617	1 - 445	15 - 459	
HNFFT83	3830	506711	1 - 445	15 - 459	Z82215.
HNFFV05	3831	932364	1 - 362	15 - 376	AA689285, AI732151, AW068996, AW069783, AA297802, AL031291, AL121825, AL022237, AC002527, AC004985, AC005544, AC005102, AL050318, Z97200, AC007676, AC002456, AC004927, AC007617, AC005291, AL022320, AC005781, AC002994, AC007878, U91326, AF109907, Z95116, D87675, AC004752, AC004099, AC002558, AC005365, AC005874, AF134471, AC002425, AC004106, AC004832, AC004673, AC004797, AL117258, AL035079, AC007388, AC006480, AL080317, AC006088, Z84466, AL031846, AP000694, AC016027, AL031311, AC016830, AC006312, AL035587, Z93020, AL021155, AC008079, AC006538, AC004820, AC008018, AL034379, AL133246, AL031657, AC005332, AC002465, AC006449, AC004814, AC004876, AC005971, and AC005520.
HNFFV66	3832	574153	1 - 309	15 - 323	
HNFFV73	3833	574143	1 - 347	15 - 361	

HNFFX21	3834	1 - 393	15 - 407	AA632593, AA612727, AI801505, AA838091, W02419, AA584862, AI049845, AI871687, AA947352, AA610255, AL121287, AA857812, R79255, AA829036, N95156, AI282629, AI243789, AI870453, AW070532, AA493789, AA054156, W02749, AI285493, AA558748, AA715173, AA715075, AI216990, AA225406, AW272294, AA715955, F35374, AA302690, AI587467, AW023111, R93919, AC002430, AC007384, AC005484, AC004477, AF196779, AC006581, AC005920, AL109628, AC005722, AF001550, AF129756, AC004000, AC005694, AC004263, AP000034, AL049869, Y18000, AC005527, AC003119, Z95115, AC005071, AC004955, AC005529, Z98749, AC007934, AC007546, AC006026, Z82190, AL133382, AL109827, AL133246, Z97832, AP000501, AC005317, AC005412, AL050318, AL109758, AL133312, AC003108, AL024498, AC006992, AC005338, AF111167, AC005237, AC002310, AC004878, AC002996, AC005988, AC002470, AP000131, AP000209, AL031291, AL022336, AC007225, AC004517, AC004232, AC004953, AC004148, AC005231, AC002301, AC006946, AC004890, AC006121, AP000248, L78810, AL139054, AC008154, AC006449, AL109627, AC006071, AC003046, AC004216, AC006430, AC005821, AF109907, Z83840, AC005049, AP000552, AC005736, AC008372, AF207550, AC007450, AP000505, AF030453, AC007114, AL033521, Z98884, AC004230, AL020993, AL035413, AC005088, AL009181, AC005225, AL024474, AC006001, AP000703, AL020993, AL035413, AC000025, AC006208, AL009179, AC007371, AL034553, AC005690, AC005971, Z97053, AC000025, AC004242, AC007690, AC004996, AC005316, AC004973, U89335, AC007024, AC005695, AC007664, AC002565, AC007421, AC003004, AL050334, AC004832, AL031767, AF124523, AC007283, AC007537, AL031311, AC020663, AL023553, AC006017, AL049843, AL109952, AF047825, AL035405, AC002551, AC006511, AC006312, AF141309, AC004139, AC004099, AC005702, AL031431, AC004686, AC005921, AL080317, Y14768, AC005519, AC004383, Z84469, AC002302, AB023050, AC005377, AC004131, AL021391, AL049795, AL031665, AL031680, AF200465, AC005037, AL133353, AC004236, AP000101, AC003029, Z99291, AC006211, Z97054, AC009275, AC007227, AL135744, Z82243, AC004802, AC005841, AC002553, AF196969, AC006141, AC007686, AC006515, AL078639, AC005004, AL022069, AC005089, AF031078, AL031664, X54156, U94788, AL049229, AC007899, AC006057, Z95114, AL035249, AC003982, AC007011, Z68273, AC004757, AC007237, AL020997, AC010170, AF030876, AJ009610, AL049631, AL031597, AC005768, AL117694, AL035443, AP000511, U91323, Z98304, AP000116, AC009294, AL049776, AL023879, AC002350, U62293, AL031005, AC016025, Z98050, AL033527, AL031729, Z83844, AC007021, AL035685, AL021997, and Z75407.
HNFFX55	3835	1 - 447	15 - 461	Z85996.
HNFFX79	3836	1 - 358	15 - 372	AC005610.
HNFFZ53	3837	1 - 431	15 - 445	
HNFFZ89	3838	1 - 987	15 - 1001	AA442241.

HNFFZ91	3839	860897	1 - 758	15 - 772	AA856866, AI921765, AA636077, AA828619, AL038842, AA807704, AI049999, AA720732, AA297776, AW243793, AA632765, AA515728, AL079734, AI039257, AW327624, AA773171, AA878431, AI306232, AI251576, AA502991, AI732151, AI282253, AI583466, AA181917, AI433952, AI090377, AI357823, AA101744, AA832175, AI336771, AI285493, AI801505, AA729004, AA284247, AL133448, AL121655, Z84474, AC005786, AC007371, AP000556, AC002984, AC005602, Z83822, AC005512, AF196779, AL035464, AF207550, AP000557, AC005303, AC005209, AC003041, AC004148, L44140, AC005003, AC002365, AC004703, AL035079, AC005972, AC004921, AC006441, AC005412, Z68331, AC004067, AC005529, AC005015, Z83840, X57103, AL078611, AP000030, AL049611, AC005527, Z83844, AL035414, AC005619, AL109628, AC007688, AP000692, AL024498, AC009247, AL139054, AC005519, AL034420, AL020997, Z99127, AC000387, AC002558, AC006057, AC006312, AL109984, AC004263, U91326, AC005089, AL050318, AC006101, AL133246, Z97054, AC003103, AC004816, AL031005, AC004616, X55448, U78027, AC006538, AC005004, AC007686, AC005180, AC007461, AC007226, AL022320, AL022315, AC006512, AP000049, AL096701, Z99716, AL078476, AL020995, AC006064, AC004678, AC005182, AL050321, AL031587, AC000025, AL024507, AC007421, AL080243, AC002366, AL049839, AC005369, AC006211, AC004967, AC006360, U91327, AL035422, AF205588, AC005971, AP000311, AC008044, AC004383, AC002544, Z95113, AL132712, AF109907, AC005914, AC007690, AC008372, AL022721, AC004034, AF165926, AC005358, Z83845, AC004812, AC009516, AC006285, AC005065, AC004643, AL121652, AP000114, AP000046, AC000353, AP000549, U62317, AC006208, AC004797, AL031003, AJ006345, AC016830, AC004673, AC007664, AC004257, AC004821, AC002483, AC007263, AC006474, AL049757, AC016025, U47924, AL022316, AC007510, AC004584, AC005666, AL121603, Z98051, Z84480, AL049795, AC004876, AL031121, AC002472, AC004887, AC005071, AC007384, AL021808, AC006261, AC007051, AC008039, AL031276, AC005684, AL049694, AF030876, AC006487, AF107885, AC004955, AC005355, AC006273, AC006088, AL096703, AC004883, AF053356, AL031657, AC004386, AC005011, AL031722, AF217403, AL117330, U91323, AL020993, AC005822, AL031846, AC005695, AC005231, AL031346, AC006241, Z98200, AC007227, AC004854, AC005920, AC002094, AC006166, AC004150, AC002310, AC005778, AP000552, AP000065, Z86090, AB001523, AL034429, AL031680, AC003108, AC004033, AL034548, U80017, AP000355, AC005482, AC005183, AC003010, AL122020, AL021939, AC006084, AC005037, U96629, and U52112.
HNFGB37	3840	577342	1 - 292	15 - 306	Z95118.
HNFGC17	3841	860899	1 - 435	15 - 449	AA639859.
HNFGC46	3842	967538	1 - 309	15 - 323	AA702690, AI570659, H58517, and AC005318.
HNFGC53	3843	860900	1 - 615	15 - 629	
HNFGC57	3844	782183	1 - 427	15 - 441	

HNFGC64	3845	851981	1 - 440	15 - 454	AC005776.
HNFGE16	3846	781720	1 - 303	15 - 317	T72851.
HNFGE36	3847	684992	1 - 566	15 - 580	
HNFGF83	3848	526843	1 - 349	15 - 363	AF184110, and AC006059.
HNFGH24	3849	524419	1 - 328	15 - 342	
HNFGH71	3850	954601	1 - 404	15 - 418	
HNFGI01	3851	921431	1 - 660	15 - 674	H95198, AW274228, AA135376, AA838709, AI031681, N51649, AI380604, U92072, AF118890, and AF118889.
HNFGI49	3852	909707	1 - 285	15 - 299	AA305489, AI970612, AI088792, AI129935, AW340706, AI445737, AW129405, AW029494, AI339728, AA431754, AA481465, N23212, AW072683, AA587221, AW273074, AA716154, AI624922, AW117722, AI582747, AA306890, AI362727, AW013971, AI636029, AI142386, AA477767, AA152108, AA230286, AA152033, AA812974, AA230236, AW002763, AI147376, AW054932, AW024764, AA233879, AA486843, AA873861, AF057026, and AF086624.
HNFGI84	3853	783204	1 - 248	15 - 262	AJ012008, AP000504, AF129756, and AF109905.
HNFGI93	3854	526534	1 - 283	15 - 297	AA812141, AA487621, AA488746, AA299189, N32849, AW243793, AW270343, AA559241, AA290563, AA760808, N72524, AA454177, AA487475, AA570230, AI753488, AW102846, AW084466, AL079511, AI561060, AI049508, AW270300, AL137998, AA569471, AI366993, AI014843, AW070892, AA483223, AA101689, AA665021, AA302811, AA811710, N91070, AA491955, AL042420, AC004883, AL021707, AC002551, I01960, M11567, AL021307, AC005772, AL031905, AL035422, Z98047, AC004821, AC003108, AL096701, AC005412, AL022311, A63032, AL109847, AC006946, AF053477, AC003969, AC005065, AC000117, Z83826, AL121694, AL118523, AC005837, AL034379, Z95114, AC007205, AC007191, AL034344, AC006130, AP000127, AP000205, Z98036, AC004662, AC004099, AC004552, Z84469, AC004894, AL049647, AC003035, AC005387, Z98745, AC007436, AC005678, AC004228, Z79997, U07561, AL078611, AF045555, AL035687, Z97054, AC005081, AC006121, AC004771, AL031679, AP001052, AC007617, AC007270, AL121652, Y12855, AC002073, AF003529, AC008079, AL132642, AC004953, Z75746, Z84721, AC006985, AP000280, AC007033, AL023575, AC004752, AL109798, U78027, AP000039, AP000107, AC006465, AC002119, Z85987, AL035587, AL031276, AF064866, AC007324, AL049694, AL031577, AC008101, AC004253, AC004595, AC003074, AC004701, AL050318, AC004051, AC005482, AL031311, AC004984, AC005399, AC004020, Z97200, AC002350, Z95152, AC007637, AL080243, AL117693, Z98304, AC003965, AC004234, U93305, AL121653, AL121658, AF196779, AL022721, U96629, AL137572, AP000545, AC005565, U15177, AC007124, AL050324, AC003065, AC005033, AP000689, AC007666, AL009031, AL109753, AC002326, AC005803, AB003151, AL031283, and AP000501.
HNFGK28	3855	574599	1 - 321	15 - 335	
HNFGK29	3856	574593	1 - 221	15 - 235	

HNFGK39	3857	1 - 225	15 - 239	AL031005.
HNFGL31	3858	1 - 469	15 - 483	
HNFGL94	3859	1 - 138	15 - 152	AC005071.
HNFGM40	3860	1 - 357	15 - 371	AI758365, R25772, AI199589, AA905339, AW410939, AA101566, AI828038, AI743331, AW294803, AI990537, AI907224, AI990873, AI636883, AI907223, AA781736, and AI479878.
HNFGM61	3861	1 - 294	15 - 308	AW239189, AW327701, AA206129, AL048272, AW239069, AA352871, AA310523, AA295649, AA481822, AW384995, AW384998, H93967, AA759007, R48716, AA434007, AW376413, H25589, T54238, R74215, H30574, AW404846, AF149291, and D21261.
HNFGM76	3862	1 - 868	15 - 882	AI860139, AI738678, AW149459, AI394329, AI499859, AI879584, AI475610, AI094142, AI057183, AW051629, AW136472, AW293272, AI886866, AI825816, AA236872, AI189241, AA927552, AI084187, AW250159, R71853, AI523638, AF150628, and AF132599.
HNFGN36	3863	1 - 635	15 - 649	AA085530, AA278791, and AI961765.
HNFGN60	3864	1 - 322	15 - 336	Z59518.
HNFGP07	3865	1 - 522	15 - 536	
HNFGP31	3866	1 - 113	15 - 127	AL135009, and AF053630.
HNFGP64	3867	1 - 719	15 - 733	AW117576, AA648940, AA814664, and AA749041.
HNFGQ23	3868	1 - 370	15 - 384	AL035530.
HNFGQ58	3869	1 - 300	15 - 314	
HNFGU56	3870	1 - 353	15 - 367	
HNFGW96	3871	1 - 753	15 - 767	H24136, R25934, Z45244, and AI214671.
HNFGX55	3872	1 - 722	15 - 736	T89765, and T84142.
HNFGZ03	3873	1 - 486	15 - 500	AI765111, and AC006953.
HNFHA11	3874	1 - 436	15 - 450	
HNFHD40	3875	1 - 468	15 - 482	
HNFHF18	3876	1 - 300	15 - 314	
HNFHF32	3877	1 - 310	15 - 324	
HNFHF33	3878	1 - 397	15 - 411	
HNFHF53	3879	1 - 338	15 - 352	AL034375, and AC002326.
HNFHG35	3880	1 - 222	15 - 236	
HNFHH12	3881	1 - 250	15 - 264	
HNFHH31	3882	1 - 304	15 - 318	
HNFHH33	3883	1 - 348	15 - 362	
HNFHH83	3884	1 - 299	15 - 313	
HNFHH88	3885	1 - 116	15 - 130	M62505, AC003007, and AC005632.
HNFHI17	3886	1 - 214	15 - 228	
HNFHJ10	3887	1 - 340	15 - 354	AC006953.

HNFHK07	3888	953538	1 - 267	15 - 281	
HNFHK46	3889	860844	1 - 433	15 - 447	
HNFHK77	3890	576186	1 - 415	15 - 429	
HNFHK85	3891	577324	1 - 420	15 - 434	AW151017, AI361481, AI660038, AA668973, H16074, AC002549, and AC003049.
HNFHM09	3892	657247	1 - 117	15 - 131	
HNFHM47	3893	916624	1 - 875	15 - 889	AI283842, AA928413, R85226, W16867, AI902392, T07285, N54179, AA808903, AA714028, AL133867, H50738, AA086360, T06699, H91188, AD000092, AC005778, AL050318, X65032, AC005089, AC005826, AC007537, AC006379, AL008631, AL109865, AL035410, AL022302, AC007059, AL021808, AC003657, U78027, AL035422, AC006454, X14448, AF147433, AC008127, AC003688, AL031657, AL049757, AL031721, AC005921, AC005822, AF001552, AC011331, Z82189, AC005837, AC002476, AD000864, AC007421, AL109984, AL031780, AC004815, Z98941, AC005703, AL021407, AC003025, AC004814, AF047825, AC008040, AC012627, AC007880, AC004998, AC004228, AC005722, AL035587, Z98051, Z82976, AL023575, AL022324, L44140, AC004921, AC005568, AL121652, AC002364, AF139813, AC005828, AL121825, AP000702, AL035681, AP000703, AL034343, Z84466, L39062, Z84723, AC000097, Z99129, AC003043, AL096769, AC007842, AP000691, AC006547, and AC007201.
HNFHM58	3894	674349	1 - 121	15 - 135	
HNFHM60	3895	662643	1 - 74	15 - 88	
HNFHN03	3896	860887	1 - 275	15 - 289	AA573693, AA313075, AA550850, AL047645, T54673, AA46356, AA608529, AW085621, AL037777, AA290802, R09127, AA744583, AI089968, AI088759, AW026427, AA808982, F23235, AA635413, N48297, AA253451, AA593092, AW268329, AA489797, R11510, AA372420, AI053568, AA009855, AI356986, AA284888, AA284638, AA290682, AA436404, AA454759, AI308598, T71936, AI888261, AL049830, AL023581, AC005411, AL034420, AL121653, AC002524, AF029308, AC004525, AC002303, AL139054, AL050317, AC006285, AL049569, AC004893, AC005094, AL031905, AC005037, AC002492, AC002364, AC005237, AC005666, AC005587, AC018359, AL133216, AL121757, AC005952, AC002128, AL035422, AL121825, AC006581, X04530, AC005684, Z99943, AC006271, AF024533, AF111168, AC002565, X58139, AJ010770, AC005914, AL022400, AC006211, AC005920, AC004927, AF051976, AL049779, AL022320, AL121578, AC004651, AC006368, AC009247, AF030453, AP000500, AC006323, AC005193, AF165926, AL023553, AL035411, AL117356, AL133445, AB026899, AC006077, AC005880, Z97630, AC004106, AL096766, and AC006462.
HNFHQ01	3897	938114	1 - 401	15 - 415	AW328430, F12145, AI815981, and AA311733.
HNFHQ23	3898	921950	1 - 422	15 - 436	
HNFHQ32	3899	765827	1 - 424	15 - 438	
HNFHQ67	3900	576147	1 - 226	15 - 240	
HNFHR70	3901	586494	1 - 331	15 - 345	AA299540, AC000159, and AB007864.

HNFHS84	3902	725666	1 - 433	15 - 447	
HNFHS85	3903	576118	1 - 299	15 - 313	
HNFHU20	3904	512927	1 - 743	15 - 757	M79201.
HNFHU27	3905	683506	1 - 320	15 - 334	AA281626, AA626747, AA744220, AW406447, AI281903, AA736472, AA652057, AA649642, AA598997, AA125788, AA095511, AW088058, AW074207, AA947370, AL042420, AI571512, T07324, AA553604, AI299694, AA836275, AA494163, AA151807, AA831388, AA338522, AW148507, AI281881, AC011311, AC006581, Z95329, AC004526, AL135744, AC004963, AL021707, AP000500, AC005303, AC002090, AF055066, AP001137, AF196971, AF067844, AC005703, Z99570, AC008179, AC004858, AL049869, AF130343, Z72522, AL021878, AF205588, AC004531, AC005994, L29074, AC007050, AC006026, AC006213, AL121603, AL133238, AF109907, AF053356, AL096701, Z69921, AC004991, AC016025, AC004647, AC006356, AC016026, AL034402, AC005971, AP000348, Z82184, AC006071, Z85986, AC000052, U44395, AP000552, AF087510, AC005531, AF049895, AL031584, AL033521, AC006285, AC004765, AB026899, AC007845, AC007066, AL121658, AC020663, AC005102, Z93023, U80017, AL031257, AC004041, AL121877, AL022323, AP000153, AP000012, L48473, Z83820, Z98048, AC006313, AL031589, AJ246003, AC003029, AC002310, AC004033, AF165926, U50429, AL035071, AL022322, AL049759, AC003684, AC006312, AC006064, AC002425, AP000556, AC007919, AL080243, and AL031431.
HNFHU85	3906	506309	1 - 364	15 - 378	AL138162, and AC004490.
HNFHV81	3907	766220	1 - 396	15 - 410	AA186965, R74512, Z42358, and AI904695.
HNFHW14	3908	939763	1 - 522	15 - 536	
HNFHW40	3909	577110	1 - 302	15 - 316	W21388, D89870, AC004152, and Z58159.
HNFHW70	3910	757261	1 - 303	15 - 317	AA228901, T89776, T71470, and Z83344.
HNFHW81	3911	577329	1 - 394	15 - 408	
HNFHX24	3912	934305	1 - 627	15 - 641	AA682722, AA579680, AA995482, and H60525.
HNFHX44	3913	716852	1 - 279	15 - 293	AF072099, and AC008984.
HNFHY29	3914	860879	1 - 569	15 - 583	
HNFIA33	3915	861010	1 - 280	15 - 294	AB017919.
HNFIB47	3916	523438	1 - 305	15 - 319	AC007032.
HNFIB67	3917	577326	1 - 111	15 - 125	
HNFIC22	3918	577442	1 - 345	15 - 359	AL031283.
HNFIC43	3919	707264	1 - 371	15 - 385	AW276703, and AC005280.
HNFIE18	3920	576032	1 - 212	15 - 226	AC005095.
HNFIG07	3921	918389	1 - 465	15 - 479	AC002091, AR026676, AC003695, Y10742, and AR026672.
HNFIH79	3922	576143	1 - 251	15 - 265	AI088952.
HNFIJ46	3923	919275	1 - 579	15 - 593	

HNFIK03	3924	921951	1-276	15-290	AL049553.
HNFIK37	3925	576151	1-223	15-237	T47739, N27353, AA084070, F35659, AL120343, AI951436, AI313166, AL048925, AC005015, AL035587, AL022237, AL031584, AP001035, AL096712, Z82214, AC003959, AC005519, AC007738, AL031296, AC001231, AL121603, AL109654, AL049776, AC000134, Z98752, AP000151, AC006965, AL096766, AC006984, AC005011, AC010849, AL049837, AC002059, AP000513, AL109984, AL035422, AC004596, AL021392, AC007387, AB023050, M96326, AC004799, Z82179, AL035450, AC005414, Z94865, AC005542, AL049856, AC008967, AC011422, AC006354, AC002350, AP000555, AC005822, AC003080, AC007652, AL096774, AP000080, AL122020, AC005988, Z97055, AC008134, AP000018, AP000692, AC004821, AL109620, AC007993, AP000159, AC005081, AL022160, AC004144, U91319, X14448, AC005354, AC005003, U78027, AC005608, AC007285, and AL049757.
HNFIK44	3926	506258	1-425	15-439	AC004149, and AL049759.
HNFIM13	3927	657201	1-421	15-435	AI583265, AL038564, and AC004687.
HNFIM16	3928	661500	1-259	15-273	AC004001.
HNFIN33	3929	702415	1-431	15-445	
HNFIN60	3930	740372	1-429	15-443	I44517.
HNFIN67	3931	574569	1-551	15-565	
HNFIN83	3932	779925	1-456	15-470	
HNFIO27	3933	573095	1-447	15-461	
HNFIO50	3934	724374	1-449	15-463	AB007864, and AC000159.
HNFIO82	3935	921037	1-196	15-210	
HNFIP50	3936	965283	1-1489	15-1503	AI083668, AI880750, AI911931, AI418465, AI762839, AI659971, AI479026, AI096759, AI033897, AI401511, AI871470, AI884848, AI814201, AW406595, AI431497, AI401210, AA293370, W75960, AA744801, AI127571, AI817886, AW405264, AI684858, W72885, AW026235, AI394414, AI224469, AA292652, AW404229, AA284412, AA766620, AW026968, AW026962, AI360930, AA355073, AI332950, AA633494, AW406935, AW407230, AA535630, AW407951, AI243522, AA929024, AA768971, AW405242, AA744794, AI760712, AW408225, AI000428, AW296233, AI091955, AI432358, R88002, AA744457, AA744459, N75335, AA716083, AI352425, AA744029, AA507894, AA280941, AA811203, AII46957, AL047763, AI468866, AA293055, AL121270, AI349772, AI539771, AI538716, AI800453, AL046849, AW087445, AI440239, AL040243, AI540832, AI499463, AI249257, AW301409, AI800433, AI275175, AL043326, AI064830, AI433976, AI620284, AI625079, AI702433, AL045500, AI433157, AI500659, AW238730, AI250293, AI702406, AI567351, AL119791, AI349933, AW117882, AI281773, AW071349, AI469811, AW195957, AI613017, AI499131, AI439087, AI568855, AI678302, AI631107, AI866002, AI568870, AI224992, AL121365, AI269696, AI868831, AI653419, AI498579, AI580190, AL047042, AI866608, AI349645, AL119748,

AI135661, AI624668, AI612913, AL038605, AI570384, AW071417, AL119049, AL036802, AL036396, AL045903, AI475371, AI635461, AI802542, AI499393, AI349256, AW169653, AW068845, AI687728, AI857296, AL036146, AL044207, AI863014, AI564719, AI636445, AW103371, AI690426, AI758437, AW303152, AI811344, AI281779, AI862142, AI445432, AW008512, AI271786, AI873731, AI569616, AI281762, AI440426, AW162071, AI580984, AI597750, AI590128, AI340582, AI682841, AI499512, AW002342, AW075351, AL048871, AW148320, AI500077, AW074869, AI445025, AW026882, AI349614, AL038778, AW268253, AI312152, AI818206, AL040169, AI345735, AI349937, AW089572, AW168650, AI699857, AW167776, AI754897, AL036274, AL036759, AI884469, AI866887, AW104724, AW085799, AI439745, AI536685, AI497733, AI799199, AI432969, AI282281, AI636456, AI811863, AI285735, AI869367, AI818683, AI318280, AI620868, AI434281, AI343112, AI619502, AI969601, AI446628, AW168384, AI539153, AW183130, AW196141, AI207510, AI804585, AI609331, AI283941, AI920968, AI500553, AI673256, AI610756, AI637584, AI282655, AI872711, AI469532, AW129202, AW169671, AI580240, AA508692, AI290154, AI269205, AW118512, AI597918, AI800411, AI690835, AI690751, AL121014, AI862144, AW301300, AW078529, AI273142, I48979, AF113013, I89947, AF113691, AF090900, AL133640, AF078844, AF090943, AL080060, I89931, AL133606, AF090903, AL133016, AL110196, AL049938, A93016, AB019565, X84990, AL110221, AF118064, S78214, AL050393, AR059958, AF090901, AF090934, AF104032, Y11587, AL117460, AL117457, AL122050, AL050146, S68736, AL137527, AF113694, AF113689, AL050149, AL050116, AF118070, L31396, L31397, AL049452, AJ242859, AF125949, AF113690, AF090896, AF113676, AF113677, AL133075, AF106862, AL050108, AL080137, U42766, A08916, AL137283, AL049314, AL122093, AL049466, AF113019, A08913, AL133557, AF017152, AL133093, AL133080, Y11254, AL080124, AL122123, AL050277, E07361, AL137557, E03348, AL096744, AL122121, I48978, AF158248, X63574, AF113699, AL133565, AJ000937, AR011880, AL137459, Y16645, AF111851, AF146568, AL050138, AF091084, AL049430, AL117394, U91329, AF079765, AL110225, AF125948, X82434, AF177401, E07108, U00763, I49625, AL117585, AF097996, AL049300, AL117583, AF017437, AL133560, E02349, AL137550, AF067728, AL137538, AL049464, A65341, AL117435, A08910, AJ238278, A08912, X70685, AL049382, A03736, S61953, AL050024, AF183393, A77033, AL133113, AL122110, I33392, AL122098, A58524, A58523, A08909, U72620, AF118094, AL049283, Z82022, AL080127, X92495, X65873, U80742, AL137648, X72889, AL137463, AF087943, AL137271, A12297, U35846, I09360, I03321, X96540, U67958, AC002467, AC007390, AL133072, AC002464, AR000496, U39656, AF061943, AL122049, AC006371, AL110197, X98834, AL096776, E05822, I42402, E08263, E08264, AL137521, Y09972, AC006336, AL080159, AL133077, AL133523, AC004686, AL133568, AL137560, I17767, AF061981, I26207, AC007392, M30514, AR013797, AF111112, E15569, I66342, AJ012755, AL122111, L13297, A93350, U95739, AC004690, AR038969,

HNFIP71	3937	1 - 427	15 - 441	AL137526, AF119337, AL137556, AF026124, I00734, AF000145, A08911, A07647, E00617, E00717, E00778, Z72491, AL133081, AL022147, AL133014, AF026816, AL137476, AF003737, AL050172, AC004987, AL137533, AF091512, AF057300, AF057299, AC004200, AF100931, AL035067, Z37987, AC007298, AF106827, AL137429, AF079763, Y14314, AL110280, AR054984, U96683, A45787, U58996, AL133098, and AI337896.
HNFIQ17	3938	1 - 427	15 - 441	R61153, AC007845, AC016025, AC016026, Z79966, Z56830, and Z56829.
HNFIQ74	3939	1 - 122	15 - 136	AC000159, and AB007864.
HNFIR02	3940	1 - 409	15 - 423	AA160511, AI970612, AI129935, AI088792, AW340706, AI445737, AI339728, AW129405, AW029494, AA431754, AA481465, AW072683, AA587221, AA305489, AW273074, AA306890, AI624922, AW117722, AA716154, AI582747, N23212, AI362727, N48805, AA477767, AA152033, AA152108, AA230286, AA812974, AII47376, AI869656, AI184855, AW168381, AI197947, AW136145, AW002763, AW191986, AA477877, AA524288, AI928763, AA233879, AI804827, AA487203, AA740454, AA230195, AA157560, AA486843, AA157958, AI556982, AW054932, AI445690, AI521047, F34247, W42636, AI356995, AA873861, AW275822, AI659224, AII42386, AA805596, F10109, AA835930, AW084015, AA720949, AA443114, AA813801, AW016711, AII97917, AW024764, AW117703, H06723, R27339, H10925, AW083223, R38694, R76673, AA299538, F10656, AA230236, AA687564, AW083394, R27308, AW088939, and AI590774.
HNFIR32	3941	1 - 459	15 - 473	AL031005.
HNFIR86	3942	1 - 427	15 - 441	AL031005.
HNFIS51	3943	1 - 362	15 - 376	
HNFIT31	3944	1 - 120	15 - 134	
HNFIU07	3945	1 - 309	15 - 323	N43757, AA450199, AA085023, AW169151, AI921649, AI376100, AW074059, AI356904, AI922654, AI564284, AI816537, AI570138, AW080120, AA491284, AA722372, N22059, AI374809, AI364809, AI580652, AI357551, H71429, H50727, AA488395, T28550, AI956124, AI708009, W85752, R99385, AA578154, AA346458, AA829106, AL110223, AC005089, AC006249, AC000084, U63313, AC002491, U07562, AL035608, AC005663, AC003957, AC005664, AC004866, AC000114, Z99754, AL049843, AB032980, Z97183, AC004623, AC003042, AL024508, AC005354, M62424, AR025392, X13921, AL110121, Z68870, AC005331, AC005199, AP000265, AC002984, AC005953, Z81314, AC005206, AC006958, AL096794, Y14768, Z83313, AC005667, AP000101, AP000505, AP000034, AL031775, AL049748, AL035701, AC005681, U85198, AC007666, AC004671, AC005968, AC006013, U96409, AL022170, AL022328, AC007773, AP000567, AP000052, AF064857, AC006312, AC002368, AL022302, AL109984, AC004851, AC009784, AC002044, AL035458, AC004455, AP000154, AC002565, S42659, U17077, M87923, and AP000012.
HNFIU14	3946	1 - 314	15 - 328	AL031276.

HNFIU24	3947	677178	1 - 380	15 - 394	AC002091, and AC003695.
HNFIU56	3948	733363	1 - 402	15 - 416	AP000356.
HNFIV38	3949	709265	1 - 374	15 - 388	AW300249.
HNFIV73	3950	764409	1 - 350	15 - 364	AW381960, AA856911, AA533315, AW382006, AI279467, AI679002, AC007993, AC004859, AL031659, AL049636, U82668, AC005015, AC007221, AL050307, AC006430, AC005048, AC002091, U07562, AC005355, AP000080, AL024509, AL034345, AD000091, AC004817, AC010206, AC008119, Z82244, and AC022517.
HNFIW62	3951	740598	1 - 380	15 - 394	
HNFIZ47	3952	720315	1 - 378	15 - 392	R54654, AA508689, R10145, AI360932, AI161218, AI302363, AA169798, N46098, AW276222, AA284554, AC007382, AL035587, AC004963, AL049839, AL049869, AC005523, AC004491, and AL022323.
HNFJA29	3953	941525	1 - 498	15 - 512	AA482321, and A90848.
HNFJA60	3954	740362	1 - 420	15 - 434	N27743.
HNFJA78	3955	723390	1 - 318	15 - 332	AL117340.
HNFJB80	3956	752489	1 - 1036	15 - 1050	
HNFJE30	3957	574145	1 - 418	15 - 432	
HNFJG33	3958	702411	1 - 425	15 - 439	AC007275, and AC006366.
HNFJG44	3959	860847	1 - 578	15 - 592	R35010.
HNFJH59	3960	738593	1 - 545	15 - 559	T06440, AI491715, AI097211, AA715280, AI886336, AI382825, AI561027, AC007684, AC006071, AC005026, AC005041, U91322, AC005274, AL136297, AC007011, AC007263, AL118497, AC000085, AC004000, AC005102, AL022318, AC006205, AL035699, AC004764, AC006501, AC004895, AF111168, Z99716, AC002351, AC006120, AF053356, AC004938, Z97056, AC003957, AC004019, AL022165, AC005833, AB001523, AC007421, AC008055, AL049538, AL049694, AC004583, AC004821, AC007637, AC006511, AC004106, AC005003, AL021918, AC007371, AF109907, AL132987, AC002347, AB000877, AC002287, AL049636, AC004494, AC005839, U52112, AC006046, AC004617, AC005696, AC007151, AP000032, AL122020, Z94056, AL049757, AC002425, AC005358, AL031296, AL096791, AP000506, AC006441, AL121756, AC005736, AC005231, AC005911, AC005944, AC005288, AL031680, AL031767, AC005971, AC008044, AC003664, AC004967, AP000688, U95740, AB023048, AC004659, AC007676, AC005089, U96629, AC012085, AC005071, and AC005409.
HNFJH70	3961	956187	1 - 890	15 - 904	AI912090, and AA553367.
HNGAC50	3962	724666	1 - 118	15 - 132	
HNGAD53	3963	527977	1 - 213	15 - 227	
HNGAF45	3964	526940	1 - 283	15 - 297	AW084484, AA682801, AI766115, AB017919, AB010999, and AB008803.
HNGAH10	3965	968271	1 - 293	15 - 307	AI810682, AI357542, AI364801, AW138908, AC005041, AC007546, AC005325, AC012627, L09706, AF019413, AC000052, AC004019, X69908, Z68284, AC006958, AP000354, AL022477,

HNGAH27	3966	573087	1 - 298	15 - 312	AP000355, AC004533, Z86061, AC005237, AC009178, AC007790, AC005753, AC006112, D87012, AP000502, AP000141, AP000088, L35671, AC006924, AL133243, AF135187, AC005612, AL031315, Z84497, AC005284, AF200923, AL118516, Z70280, AC005304, AL031120, AL139054, AC004212, Z97630, AP000126, AP000204, AC004522, AB023050, AP000244, AC005548, AP000512, AC005200, AL035419, AC005668, AL031431, Z96104, AL079304, AC004140, AC004963, Z82203, AC005253, AC005253, AC004167, AC004849, AL132992, AC004695, AC004981, Z98748, AL050307, AC008045, AL035067, AC008079, AC007529, L20252, AL133448, AC005592, Z98036, AL024495, AC004859, U91323, AC004975, AC007796, and AL031311.
HNGAI23	3967	676296	1 - 355	15 - 369	AI187426, AC006352, AC007028, AC006359, AC002041, U91320, and AC005591.
HNGAI35	3968	558467	1 - 252	15 - 266	AA296593, AL022069, AL031386, AC005381, AL049613, AL035551, AB020862, AC007073, and AC004990.
HNGAJ10	3969	860751	1 - 398	15 - 412	AL121840.
HNGAJ82	3970	577407	1 - 200	15 - 214	A52418, and A67829.
HNGAK12	3971	660682	1 - 420	15 - 434	AA361909, AA305740, AA127756, AA769607, AA703462, AW294771, AF096300, AL137755, AB014587, AC005035, U88984, and AB013385.
HNGAK70	3972	860770	1 - 353	15 - 367	AC002303.
HNGAL51	3973	531719	1 - 235	15 - 249	
HNGAL84	3974	573099	1 - 166	15 - 180	
HNGAL88	3975	574666	1 - 243	15 - 257	AC005576, and U95626.
HNGAL92	3976	953889	1 - 199	15 - 213	
HNGAN28	3977	685436	1 - 150	15 - 164	AC008012.
HNGAN78	3978	577412	1 - 432	15 - 446	AI660791, and AI660768.
HNGAO40	3979	660305	1 - 158	15 - 172	
HNGAP18	3980	666852	1 - 321	15 - 335	AA580572, AW079831, AC005914, AC005529, AC006538, AC005527, AC007731, AC005500, AC006251, AC007536, AC005694, AC006273, AL121652, M63005, M63544, AL049869, AC005594, U91325, AL022323, AC004752, AC005084, AL035587, AL023575, AC004934, AF146367, AC005091, AL023803, AL031846, AF124523, X16289, and AC006130.
HNGAP59	3981	916323	1 - 152	15 - 166	
HNGAQ54	3982	574647	1 - 211	15 - 225	
HNGAR83	3983	574470	1 - 375	15 - 389	
HNGAS51	3984	773208	1 - 231	15 - 245	AL023913.
HNGAU59	3985	860839	1 - 77	15 - 91	AC000365.
HNGAU65	3986	925692	1 - 235	15 - 249	
HNGAV04	3987	506589	1 - 431	15 - 445	

HNGAV25	3988	1 - 273	15 - 287	
HNGAV53	3989	1 - 360	15 - 374	
HNGAV79	3990	1 - 369	15 - 383	
HNGAV84	3991	1 - 93	15 - 107	
HNGAV88	3992	1 - 439	15 - 453	AL024473.
HNGAW25	3993	1 - 329	15 - 343	
HNGAW40	3994	1 - 399	15 - 413	AW020198, AI003469, AW247338, AI478722, AI300507, T67734, AC005175, AF001548, AL139054, AF001550, AC005527, AL023653, AC005399, AC005529, AL035405, AL031228, AC004815, AC005535, AP000359, Z83844, AC005786, AF030453, and AL117258.
HNGAX82	3995	1 - 333	15 - 347	AC006953.
HNGAZ49	3996	1 - 387	15 - 401	AA584072, AP001069, AP000567, AC005250, and AC008372.
HNGBB06	3997	1 - 408	15 - 422	H50004, and H62199.
HNGBC50	3998	1 - 1653	15 - 1667	AW069227, AL119625, AA813902, AA720582, AI702095, AI910609, AW272925, H15679, AA653221, AI634187, AI431232, AI677668, AI684208, AI720431, AI805380, AI367420, AI367401, AI986251, AA632407, AI186470, AW338292, AI128353, AI832782, AI457313, AI925423, AA491864, AL048267, AA704147, AI818212, AI473995, AI679394, AI678812, R43331, AA526413, AI679902, AW025031, AI583397, AA634737, AA484022, AA177061, AI288033, AA015918, AC002316, AC003962, AC006111, AC004832, Z99291, AC005058, AL022476, AC002115, AF207550, Z97054, AL117339, AC009516, AL133448, AC003950, AC006509, AC004812, AC002126, D87675, AJ003147, AL096701, AC004167, AC005913, AJ251973, AC000052, AC002401, AL034430, AC007666, AC005585, AC004686, AE000658, AL035422, AC007685, AC005412, AL136295, Z84466, AC005726, AL022721, AC006511, AC006061, AL049830, AP000493, AC007371, AC005746, AC005229, AC005375, AP000704, AP000558, AP000011, AP000152, AC006571, Z82202, AL031577, AL031846, AC003108, AC006121, AC004821, AC005914, Z93023, AL031432, AC007226, AC004583, AL096791, AL109628, AC005008, AL117694, AC005747, AP000114, AP000046, AC005332, AP000466, AC004834, Z83844, Z93241, AC005666, AC003104, AC005940, AB003151, AP000240, AL035400, AL121655, AL035089, AP000303, AC005084, AF053356, AL031602, AC005480, AC009946, AL049839, AP000501, AP000557, AC002558, Z85986, AC006211, AC004673, AF152363, Z84487, AC005696, AC005527, AC004148, AL034379, Z95114, AC005730, AC007216, AC004895, AP000252, AL022330, AC002045, AC008044, AC004019, AC008123, AC006071, AC005620, AP000212, U85195, AL008582, AC005049, AC005279, AC004773, AF003626, AC006146, AC004033, U91323, AC005004, AC005071, AL022326, AC007283, AL031650, AL049760, AC002302, M26434, AL109623, AC004386, AC006449, AC006328, AL049569, AC006344, AC005189, AC006006, AL049709, AL031680, AC020663, AC004522, AF064861, AC008040, AP000692, AL021154, AC004032, AL021069, AC003109, AC005399, AP000269, AL049743, Z96074, AC005089, AL035681, AL023883, AP001039, AL031589,

HNGBE26	3999	1 - 361	15 - 375	AC005736, AC007363, AP000049, AP000116, AC009247, AC004882, AP001052, AC010077, AC007690, AL021391, AP000103, AC007160, AC002563, AC004706, Z97056, AC004257, AL133245, AC006115, AF067844, and AC002429.
HNGBF41	4000	1 - 359	15 - 373	AC005553.
HNGBF80	4001	1 - 345	15 - 359	
HNGBG20	4002	1 - 341	15 - 355	
HNGBG50	4003	1 - 273	15 - 287	AC002492.
HNGBH04	4004	1 - 163	15 - 177	
HNGBH77	4005	1 - 302	15 - 316	AC004538.
HNGBI10	4006	1 - 323	15 - 337	T18597, AA585325, AA585098, R45895, R29657, Z32822, D51433, AA585101, Z32887, D57491, D59751, D61185, C15406, D53161, R28735, R29445, C15069, AI525316, AI557262, AI526078, AI526140, AI557864, R28892, AI541356, R28965, AA585378, AA585155, AI541365, AI525500, AI557740, AA170832, AA585439, Z28355, D60765, D54897, D60844, D59436, Z33559, AI557809, AI557718, R29218, AI546999, AA585329, AI541535, AI541517, AI557731, D54850, D52835, AI526016, R28967, R28895, AI546971, AI557727, AI541205, AI526184, AI525556, C16294, C16315, AI547250, AA283326, AI541383, AI535639, AI546875, D55233, D59458, AI540903, AI557763, AI547039, AI557787, D61254, D53447, AI557734, C16300, C16296, AI557084, C16292, C15120, C15762, AA585476, AI526109, D53472, C16293, AI557807, AI541346, AI541013, AI547202, AI546831, AI557533, AI525306, AI526024, C16305, C15737, AI541374, AI541034, AA585356, AI557408, D60730, AI557758, AI546945, AI525431, AI547196, AI557279, AI525339, Z36724, AI526191, AI557155, AI535660, AI526194, AA585430, AI526117, AI557602, AI526112, AI541523, R29179, Z30131, D57186, AI557852, AI546921, AI540974, AI541307, AI546996, AI541321, AI540967, AI546891, AI525320, AI547006, AI525856, AI526158, AI546901, AI557317, AI536138, AI541492, AI557808, AI525168, AI526146, C14208, AI541422, AA585453, R29262, AI525656, AI546829, R29172, AI526113, AI541402, AI557264, AA585389, AI557799, C16290, AI541527, AI526195, R29177, AI541515, AI526176, AI557810, AI557039, AI541423, AI556967, T19407, AI547189, AI525114, AI557786, AI524904, AI525076, C14210, AI526073, AI547137, AI557041, AI541516, T41289, AA514191, AI541510, D61060, AI526205, AI526169, AI541415, AI526180, AI541027, AI546954, AI526187, AI525332, AA585434, AI525286, AI557785, AI557238, AI524891, AI540944, AA585117, T41329, C14322, AI541345, AA585420, AI557796, AJ239433, AI540920, AI546828, AI541506, AI557082, AI524890, C14391, C14723, AA174170, AI526026, AI547158, AI541075, AI547026, AI540928, AI046024, AI540882, AI557285, AI547122, AI546841, AI541514, D51413, AI557802, AI541017, AI547138, AI541390, AR062871, A25909, AR038855, X82786, Y09813, X76012, AR031358, AR031365, AJ243486, AJ244005, Y16359, AF082186, Z32836, AR038762, AR054723, X81969, D50010, D13509, X55486, AJ244004, A20702, AR062872, AR062873, AR062873, A20700, D78345, A43189,

HNGBJ35	4007	1 - 126	15 - 140	A43188, AR017826, AJ244006, AJ244003, AR017907, AC005913, AJ244003, AR003381, Z30183, A62298, AF213384, AR050070, A82595, A82593, AF006072, A98420, A98423, A98432, A98436, A98417, A98427, X82834, and L36913.
HNGBI70	4008	1 - 429	15 - 443	N72393.
HNGBI88	4009	1 - 331	15 - 345	AC002310.
HNGBI95	4010	1 - 223	15 - 237	AC005215.
HNGBJ40	4011	1 - 563	15 - 577	
HNGBJ84	4012	1 - 295	15 - 309	
HNGBJ96	4013	1 - 286	15 - 300	AC007380.
HNGBN36	4014	1 - 425	15 - 439	
HNGBO34	4015	1 - 412	15 - 426	
HNGBP21	4016	1 - 498	15 - 512	H02689, T73124, AL080280, AL080281, and A68194.
HNGBP28	4017	1 - 201	15 - 215	
HNGBP35	4018	1 - 293	15 - 307	
HNGBQ20	4019	1 - 523	15 - 537	
HNGBQ75	4020	1 - 339	15 - 353	
HNGBS88	4021	1 - 404	15 - 418	AA594214, AI612901, AC002365, AC002300, AC005921, AC003684, AC004778, and Z98946.
HNGBT44	4022	1 - 343	15 - 357	AA252763, AL133723, AW193265, AI284640, F36273, F33566, AI688846, F29989, AA858197, AI446464, AI350211, AA824654, AA678436, AW193432, AA515435, AA824655, AA350859, AA810370, AI471481, AI053672, AI282832, AI358501, AA515128, AL046409, F31204, AI061334, AA302648, H64777, AI963720, F18974, F37286, AI824562, AA340747, T07451, AI610159, AI431303, AA610491, AI471543, AI049634, AW406755, AI768952, AI358229, AI249997, AA669840, AA977743, AI365988, AA377730, AI963095, AW276827, AI669453, AA747276, AA586655, F25276, AA719805, T29180, F28776, AW339687, AA846955, F30933, AI635272, AI064864, AI270117, AW193609, AC006287, AC004006, AF117829, AL133163, Z99571, AC006965, Z93928, AF027390, AC012599, AC007014, AL022329, AC005799, AC008125, AC002303, AL031650, AL109657, AL078638, AL021918, AL021368, AC007685, AL121578, AC005409, AF130342, AL078644, AC005911, AL021808, Z84480, AC005066, AC008071, AC007227, AC003050, U91319, AC006549, AC006367, AC006153, AC007221, AC006042, AL035551, AL078593, AC006322, Z97196, AC005751, AL049830, AL096861, AL035089, AC005291, AL049775, AC006195, AL096791, AC006012, AC004673, AC006500, AL022163, AC004869, AC010072, AC004485, AP000036, AL049697, AP000260, AC004690, AC005189, U91322, AC005324, AP000069, AC005303, AC021092, AP000099, AC007590, AL022160, AC004470, AL031433, AC006525, AP000355, AC007326, AF196971, AC006213, AB020858, AL078604, AC007687, AC006238, AL033517, AC005755, AC004686,

HNGBT58	4023	577325	1 - 323	15 - 337	Z82975, AC003684, AL121658, AL023799, AL035086, AL135744, AC005914, AC005792, AC002386, AL035667, AJ229041, AC004025, AP001172, AC007043, AC006043, AC006313, AC007436, AC005699, AC000385, AF029308, AC002984, AL021307, AC005015, AC004554, AC016025, AL034548, AF045555, AC007845, AL031584, U69730, AL109798, AC005191, AC007262, AC003003, AP000359, AC002289, AL078639, AC005722, AC007681, AC005081, U73633, AP000567, AL049845, AL109939, AJ011930, AL021155, AC004804, AC009223, AL121823, AL022727, AL049776, AC002367, AC005255, AP000159, AF181896, AC006017, AF165926, AC005013, AC003001, AP000020, AC004806, AC004547, AL049588, AC007363, AL133238, Z83840, AC005301, AC003083, AC006211, AC005400, and Z97181.
HNGBT72	4024	579064	1 - 358	15 - 372	AW162493, AW298244, AA435512, AW295626, AW295622, AA527713, AA663337, AA393547, AC005057, AC007536, AC005520, U82670, Z59900, and Z59880.
HNGBU15	4025	574467	1 - 209	15 - 223	
HNGBV67	4026	574468	1 - 420	15 - 434	
HNGBW63	4027	574466	1 - 216	15 - 230	
HNGBX64	4028	574472	1 - 96	15 - 110	
HNGBZ16	4029	667293	1 - 414	15 - 428	
HNGBZ17	4030	575717	1 - 437	15 - 451	AC005332.
HNGBZ20	4031	812895	1 - 318	15 - 332	
HNGBZ55	4032	573069	1 - 249	15 - 263	AI761359.
HNGBZ92	4033	574464	1 - 218	15 - 232	
HNGCA47	4034	574465	1 - 192	15 - 206	
HNGCA61	4035	574461	1 - 278	15 - 292	
HNGCB44	4036	674670	1 - 389	15 - 403	U95740.
HNGCC47	4037	926947	1 - 130	15 - 144	
HNGCD08	4038	959963	1 - 365	15 - 379	
HNGCE85	4039	970738	1 - 293	15 - 307	AA292726, AA887639, AI351774, AI655222, AW009008, and AI989605.
HNGCF09	4040	527972	1 - 139	15 - 153	
HNGCF28	4041	574397	1 - 222	15 - 236	
HNGCG83	4042	868075	1 - 389	15 - 403	H86238, and AC005670.
HNGCH05	4043	932404	1 - 476	15 - 490	H92525, H48715, AI085029, H90375, AA075537, R01389, AA668973, AI352404, AW103601, AI217313, W88502, H70430, AA528363, Z84480, AC003103, AC002352, AF196969, AC000357, AC005335, AC007535, AC003101, AC005520, U91322, Y11535, AF006752, AC005546, AC006162, AC005072, U82668, AL023913, AC002350, AC004834, AF061032, AC001228, AB018503, AC008989, AC005902, AC004887, AL035249, AC006165, AB023051, Z73979, AC006313, Z98950, and AC006430.

HNGCI02	4044	920722	1 - 224	15 - 238	
HNGCI11	4045	967513	1 - 456	15 - 470	
HNGCI17	4046	526807	1 - 403	15 - 417	
HNGCI53	4047	825377	1 - 403	15 - 417	
HNGCI69	4048	574456	1 - 264	15 - 278	
HNGCK34	4049	706561	1 - 193	15 - 207	
HNGCK82	4050	796479	1 - 130	15 - 144	
HNGCK93	4051	574458	1 - 262	15 - 276	
HNGCL31	4052	571332	1 - 395	15 - 409	AI025072.
HNGCL55	4053	574453	1 - 377	15 - 391	
HNGCM05	4054	932409	1 - 133	15 - 147	
HNGCO37	4055	708694	1 - 396	15 - 410	
HNGCO45	4056	573055	1 - 370	15 - 384	
HNGCO86	4057	779203	1 - 365	15 - 379	D80045, D80212, D80157, D80268, D80248, D80195, D59502, D80439, D59619, D80210, D80240, D81026, D81030, C14389, D80164, C15076, D80219, D59653, D80022, D80166, D80193, C06015, D80302, D59467, D80391, D59275, D80038, D59787, D80227, C14331, D80269, AA305409, D58283, D80196, D80247, D50979, D59859, D51423, D51799, D80253, D80043, AA305578, D59927, D80133, D80366, D80188, D51022, D80522, D50995, AA514188, C14014, D51060, D59610, D80378, D51103, D57483, D59889, AA514186, D80024, D51759, AW177440, AW360811, C14429, D80241, D80251, AW178893, C75259, C03092, AW377671, AW375405, AW360844, C05695, AI525923, D59373, AW377676, T03269, AW178906, AW366296, AW178986, AW360817, D45260, AW179328, AA809122, T48593, D80258, AW375406, AW378534, AW179332, D59503, AW377672, H67854, AW179023, AW178905, H67866, AW177731, AW378528, AW178762, AW179019, AW378532, T03116, AI525917, D80064, T11417, AW177501, AI535686, AW177511, F13647, D51213, AW378533, AW179020, AW352171, D59317, AW352170, D58246, C14227, AW178907, AW177733, AW178908, AW179024, D51221, AW360834, AW177734, D81111, D51250, AI525920, C14344, AW360841, D80014, AW352120, D59551, C14973, AI525227, AW177505, AW367950, AW178775, AW178909, AW177456, AW179004, AW179329, AW178980, D59695, AW178914, D80949, AW178774, AW178754, AW179018, AW352158, AW176467, D59474, AW352117, Z21582, D60010, AI525925, AA514184, D80228, D60214, AW177728, C13958, AI525235, D58101, D52291, AI557774, D45273, AW179017, C14957, C14046, C14407, AW179009, AW179012, AW178911, AW378543, AW378525, AW378540, AW177722, AW352163, AI525242, D59627, D80388, C05763, D80168, AI525237, AW179013, AI525222, AA285331, AW378542, AI557751, AI525215, AW178781, C14298, AW378539, C16955, AI525928, Z33452, T02974, AI910186, F13796, AW360855, T03048, D51053, AI535663, T02868, H67858, C04682, D31458,

HNGCQ37	4058	708698	1 - 325	15 - 339	A82595, AR060385, A84916, AB028859, AJ132110, AB002449, A62300, A62298, AR018138, AR008278, AF058696, I50126, I50132, I50128, I50133, I14842, A45456, AR016514, AR066487, A43192, A43190, X67155, AR060138, Y17188, A94995, D26022, A26615, AR052274, Y12724, AR038669, A25909, A30438, AR066488, A67220, Y09669, D89785, A78862, D34614, AR054175, AR008443, Y17187, A63261, D88547, AR008277, AR008281, AR016691, AR016690, U46128, AR062872, D50010, A70867, AR016808, X82626, AR008408, I79511, A64136, A68321, AR060133, I82448, and AR025207.
HNGCU24	4059	574339	1 - 137	15 - 151	
HNGCU70	4060	574340	1 - 141	15 - 155	
HNGCW38	4061	574463	1 - 308	15 - 322	AC005920.
HNGCW81	4062	577253	1 - 389	15 - 403	AW104496, and AA485071.
HNGCW82	4063	574344	1 - 348	15 - 362	
HNGCW83	4064	574338	1 - 126	15 - 140	
HNGCX07	4065	953900	1 - 334	15 - 348	
HNGCY37	4066	952203	1 - 546	15 - 560	AI564185, AA829565, AL133246, AC002416, AL031587, AP001052, AC006071, AL080243, AC004386, AL109759, AF001552, U52111, AL109798, AC005156, AC002546, AC006013, AL049776, AC005911, AC009336, AL049539, AC008372, AL035587, U85195, AL022165, AL035089, AC005411, AL049760, AF205588, AC004526, AJ246003, AP000031, AC005069, AC005342, Z68285, AL121658, AC004552, AC005225, AL109628, AC006111, AL021707, AC005255, AL109963, AE000658, AC004019, AC005971, AF111168, AL031255, AC007773, AC002470, Z86090, AL033527, AC004805, AL031229, AL117329, AL022322, AP000359, U95742, AP000008, AP001037, AC005632, AP000704, AC006480, AC003109, AC008040, AC004770, AC009308, AL031387, AC006449, AL133448, AL022476, AC004478, AL031274, AL021579, AC007488, AC007543, AC006241, AC007221, AC005484, AL049829, AL008726, AL049766, AL109847, AF045555, Z93023, AC005102, AC002350, AC005072, AC007981, AC005914, AF064861, AL050318, AC005562, AC005081, AC009248, AC004659, AC004139, AL024474, AP000555, AL035455, AC004859, AL133163, AC005703, AC005488, AC002302, AL049692, AC007283, AL133245, and AC004134.
HNGCY41	4067	806055	1 - 272	15 - 286	AC002127.
HNGCY43	4068	574392	1 - 333	15 - 347	
HNGCY59	4069	959967	1 - 784	15 - 798	AA649070, AA210872, AA809496, AI567520, AA405464, and N67248.
HNGCZ13	4070	660916	1 - 394	15 - 408	
HNGDA09	4071	574454	1 - 220	15 - 234	
HNGDA56	4072	574452	1 - 324	15 - 338	
HNGDB25	4073	784836	1 - 364	15 - 378	

HNGDB65	4074	526852	1 - 248	15 - 262	AL022101, and AL023753.
HNGDD30	4075	573021	1 - 421	15 - 435	
HNGDD39	4076	709270	1 - 150	15 - 164	T18597, AA585325, Z32822, AA585378, R45895, AA585098, R29657, Z32887, D59751, D53161, AA585329, AA585101, C15406, D57491, D61185, Z33559, R28735, R29445, D59458, AI557718, AI525316, AI541356, AI557262, C15069, AI557864, AI557740, AI526078, AI525500, D51433, R28892, D59436, R28965, D54850, AI541517, AA585439, Z28355, AA585155, AI526140, AI541365, R28967, AA170832, AI535639, D60765, D54897, D60844, Z36724, R29218, AI541205, AI557809, AI557727, AI557731, AI546831, AI546971, R28895, AI535660, AI541535, AI557787, AI526016, AI526184, AI540903, C16294, C16315, AA585430, AI541034, AA283326, AI557084, AI541383, AI546999, AI557533, AA585356, AI546875, AI547250, D55233, AI557763, AI547039, D61254, D53447, AI557734, C16292, C15120, C15762, D52835, AI526112, AI526117, D53472, AA585476, AI557408, AI541346, AI557602, AI557807, C16300, AI541013, C16296, AI525339, AI526024, C16293, AI557852, D30843, AI525306, AI547196, C16305, C15737, AI525302, AI541374, AI557155, AA585389, AI557317, AI526109, AI536138, AI547202, D60730, AI525168, AI557758, AI526146, AI546945, AI525431, AI526158, AI526191, AI541515, AI526194, AI540974, AI546921, AI541321, AI541307, AI525320, AI541492, AI546901, AI557279, AI557810, AI547140, Z30131, AI557808, AI541423, AI525856, AI526176, D57186, AI557264, AI541353, AI557799, AI541516, AI547189, AI546996, AI540967, AI546891, R29179, AI541402, AI547006, AI546829, AA585453, AI525114, AI526195, AI541422, AI557041, C14210, C14208, AI541527, AI525656, AI526169, AI557039, D61060, AI525076, AA585434, AI526113, R29262, R29172, C16290, AI524904, R29177, AI524891, AI541027, AI540944, AI556967, AI557786, AA585117, T19407, AI546954, AI525332, AI526073, AJ239433, AI547137, AA585420, AI557238, AI557796, AI541510, T41289, AA514191, AI524890, AI526187, AI557785, AI526205, AI540928, AI541506, AI541415, AI541075, AI547158, AI541345, AI541450, AI525286, AI546828, D51413, AI557082, T41329, D50992, AI526026, AI046024, AI547122, AI546841, AI540920, AI557802, AI557285, AI547026, AI547138, AI557543, AI541362, A70872, A70869, A85476, U94592, AR031358, AR031365, AR037157, U87250, AC005913, AJ243486, AR017826, AJ244006, AJ244005, Y16359, AF082186, AR038762, Z30183, AR003381, AF213384, X81969, Z32836, A62298, AR054723, D50010, D13509, AJ244004, X55486, A20702, AR062872, AR062873, A20700, D78345, A43189, A43188, AR050070, A82595, A82593, AR017907, AF006072, AJ244003, X82834, AF135243, AB005666, L36913, and AJ131952.
HNGDDD73	4077	764596	1 - 452	15 - 466	AC005390.
HNGDE07	4078	953858	1 - 239	15 - 253	AF109718, AC004908, AC006328, AC004916, AC004842, and AL133216.
HNGDE31	4079	794124	1 - 382	15 - 396	AL022098.
HNGDF48	4080	723368	1 - 147	15 - 161	AC004914.
HNGDF72	4081	766217	1 - 315	15 - 329	

HNGDG86	4082	577237	1 - 310	15 - 324	
HNGDH09	4083	573022	1 - 364	15 - 378	
HNGDH37	4084	917254	1 - 201	15 - 215	
HNGDH52	4085	914629	1 - 422	15 - 436	
1HNGDH96	4086	573060	1 - 427	15 - 441	
HNGDK17	4087	860684	1 - 351	15 - 365	
HNGDK41	4088	574559	1 - 375	15 - 389	AA354141.
HNGDL32	4089	935842	1 - 355	15 - 369	U51561.
HNGDL72	4090	574451	1 - 90	15 - 104	
HNGDL93	4091	927582	1 - 170	15 - 184	
HNGDO17	4092	973285	1 - 680	15 - 694	
HNGDP10	4093	968221	1 - 437	15 - 451	AW392414, AA721530, AA657910, R76962, AA362349, AL039309, AA211734, AA946848, R69527, H43771, AA714073, AA362348, AI471455, R87275, AI217131, H86221, AA429481, AA721523, AA483606, H84412, W63553, AI687343, AA570740, AA568204, AI306717, AW117723, H62550, AI130709, AI536858, AI537995, T69879, AA019003, AL041352, AW029269, AI368732, AI814682, AI758799, AI291439, AA488689, AI708152, R87883, AW190277, AW272640, AW117704, AA805848, AA355367, AA018923, AA012829, AA489240, AL037052, R33734, AW148775, AI298787, AI215784, AA831801, T40629, H67064, AI473671, U51704, Z95327, AF196970, AF141325, AL022311, AC007207, AC007201, AC005796, AC005829, AL035458, M31303, X94912, AC006360, U29874, AC007880, Z49235, AC002037, AC007707, AP000694, AC004817, AD000684, AC002128, Z83845, AL049733, AC006101, AC005828, AL121754, AC004491, AP000501, AC003667, AC003070, AP000030, AF030453, AC012039, AC005088, AC005237, AP000248, AL034549, AC005920, M87889, AP000065, AL049776, AC003690, AC000075, AC003072, AC000084, AC002491, AP000313, AC007199, AP000193, AL049843, AP000050, AL023877, AL034417, AC008044, AL023775, Z95115, AC002400, AC007993, AL031667, AP000117, AC005666, AL022721, AC008009, Y10196, AC008018, AP000347, Z98749, AC004815, AL022331, AC016831, AL049540, Z98051, Z93244, AC002351, AC005274, AC005201, AL022326, AC007161, U85195, AE000658, AL135879, AL121790, AC005081, AC004647, AC005480, AL031666, AL024508, Z73417, AC005914, AC005015, AL034402, AB020690, AC005328, AL031721, AF006487, AC006275, AC004257, AD000813, AF027974, AC005619, AC004611, Z82243, AC004694, AL021453, AC004814, AP000289, Z98743, AL031905, AC005773, AP000042, AP000110, AC004996, AL050341, AC004079, AC005663, AC004703, AC003983, Z95113, AC005924, AF196972, AC004941, AB017602, Z84466, AC005664, AL049759, AC005844, U52111, AC007276, AC008064, AL080243, AC006547, AC005261, AL049780, AL022318, AC006530, AC003101, U47924, AC000353, Z93241, U94776, AP001056, AL031728, AC005071, AC002477, AC007363, AL035249, AC006210, AL034420, AP001054, AC007429, AL031407, AL008725, AP000348,

HNGDP13	4094	574484	1 - 452	15 - 466	AF050154, AC002389, AC006388, AC002369, AL031594, AC004217, AL008583, AL031291, AL096678, AC007533, AC007358, AP001053, AC009946, AL133448, AC005516, AC004084, AL049575, AC004962, Z83851, Z85986, AF196779, AC000044, AC000034, AF003626, AC006055, AC006538, M89651, and AC006014.
HNGDP27	4095	574482	1 - 433	15 - 447	AI962959.
HNGDP29	4096	574488	1 - 401	15 - 415	
HNGDP30	4097	574480	1 - 351	15 - 365	AC005866.
HNGDP71	4098	574481	1 - 348	15 - 362	
HNGDP74	4099	860669	1 - 487	15 - 501	
HNGDP89	4100	574478	1 - 389	15 - 403	
HNGDP95	4101	574477	1 - 315	15 - 329	
HNGDR19	4102	953672	1 - 376	15 - 390	
HNGDR42	4103	657404	1 - 284	15 - 298	
HNGDR79	4104	572904	1 - 248	15 - 262	
HNGDR81	4105	572901	1 - 364	15 - 378	
HNGDR88	4106	860666	1 - 311	15 - 325	AC004408.
HNGDS04	4107	572909	1 - 533	15 - 547	
HNGDS59	4108	576763	1 - 250	15 - 264	AL035469.
HNGDS96	4109	796488	1 - 504	15 - 518	
HNGDT36	4110	572895	1 - 400	15 - 414	
HNGDU45	4111	722062	1 - 504	15 - 518	AP000274, and AP000105.
HNGDV22	4112	572910	1 - 432	15 - 446	
HNGDV25	4113	573152	1 - 287	15 - 301	AF118808.
HNGDV59	4114	739407	1 - 98	15 - 112	AC006166, AB023051, and AP000512.
HNGDV96	4115	796487	1 - 501	15 - 515	AP000345.
HNGDW23	4116	576773	1 - 420	15 - 434	
HNGDW62	4117	573162	1 - 290	15 - 304	AP001054.
HNGDW95	4118	661943	1 - 488	15 - 502	
HNGDX50	4119	860661	1 - 300	15 - 314	
HNGDY12	4120	870390	1 - 585	15 - 599	AC006263.
HNGDY14	4121	968042	1 - 258	15 - 272	
HNGDY39	4122	572908	1 - 396	15 - 410	AC005702, and AC003976.
HNGDY92	4123	920168	1 - 409	15 - 423	AL033538.
HNGDZ52	4124	572865	1 - 348	15 - 362	
HNGEA44	4125	572855	1 - 149	15 - 163	

HNGEA82	4126	778879	1 - 165	15 - 179	AL021367.
HNGEA88	4127	578911	1 - 348	15 - 362	AC002492, and AC002045.
HNGEB79	4128	576743	1 - 385	15 - 399	Z97351.
HNGEB81	4129	572862	1 - 299	15 - 313	AP000250, AP000030, AP000133, and AP000211.
HNGEB91	4130	924912	1 - 340	15 - 354	
HNGEC02	4131	917530	1 - 987	15 - 1001	AA585439, AI525328, AI525556, AI525556, AI535639, AA585453, Z28355, AI541523, AI546855, AI541374, AI525316, AA585440, AI546999, AI525306, AI541514, Z30131, AI526140, AI556967, AA585101, AA585434, AI546899, AI541508, AI557807, AI541510, C15189, AI526194, AI525431, AI557084, AI546945, AA585356, AI541509, AI546828, AI541013, AI541365, AI526180, AI541535, AI547039, AI540967, AI557731, T11028, AI541017, AI535660, AI557799, AI557787, D61254, R29445, C16300, R28735, AI541307, AI536138, AL040625, AL045817, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL040510, AL041098, AL040621, AL043538, AL041324, AL040464, AL040162, AL041086, AL043496, AL041296, AL041233, AI526196, AI526184, AL041159, AL045725, AL041140, AL040193, AL043467, AL044186, AI557262, AL044037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL040553, AL040332, AL040617, AL045684, AL040370, AL043677, AL046442, AL040839, AL040149, AL041752, AL043775, AL044165, T23985, AL043492, AL041602, AL045920, AL041278, AL038838, AL040253, AL044074, AL041635, AI546875, AI525321, AL045990, AL040458, AL044199, AL044187, AL040263, AL040090, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL046392, AI541205, AL041374, AL040052, AL043845, AL043537, AL039338, AL042135, AL044064, AL039316, AL043923, AL038983, AL043814, AL043848, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, AL038532, AL040768, AL037727, AL046994, AL040414, AL540920, AL040576, AL040571, AL046914, AI142134, AL045857, AL039744, AI541345, AL079878, AL049018, AL040444, AA585476, AI526144, AL045857, AL039744, AI541345, D57491, AL038822, AL045671, AL046327, AL041168, AL049069, AL043444, AL041246, AL040472, AI557796, C16305, AL040238, T41289, AL041347, AL041955, T23957, AI525320, AL038761, AL040075, AI546891, AI535813, AL080031, AI526187, R29177, AL045989, AI526073, AL038761, AL046147, AJ239433, AL042096, AL044529, AI541317, AI557082, AL037436, AL039643, AL039360, D55233, AL037435, R29218, T23888, AI557802, AL044125, AI557238, AI525653, AA174170, AI541415, AI541390, AL079852, AL040252, AI525339, AA585155, AI557155, AL045211, AI557727, AL043950, AL134123, AI541506, AI525856, D61185, AI557734, AI541534, R45895, AI557279, AL041210, AL037341, AI557740, AL023494, AR017907, I13349, A91965, X81969, I44681, I66485, I66487, AR008429, AR038855, AR038855, AR062871, A25909, I66495, I66494, I66498, I66497,

HNGEC06	4132	935840	1 - 303	15 - 317	AL050321.
HNGEC41	4133	782294	1 - 433	15 - 447	I66496, I66486, I66481, A85395, I66488, I66482, I66490, I66491, I66492, I66493, A83642, A83643, I66483, I66484, A85476, A83151, AR062872, AR062873, AF082186, AJ244004, AJ244005, AR037157, AJ244003, A20702, A20700, A43189, A43188, A98420, A98423, A98432, A98436, A98417, A98427, I63120, I18895, A98767, A93963, A93964, AR038762, Y16359, D78345, A84772, X83865, A84773, A84775, A84774, AR054109, AR067731, AR067732, A86792, A58522, A91750, AJ244007, AI8053, M28262, A60212, I15717, A60209, A60210, A60211, I15718, E03627, I49890, I48927, A02712, A77094, A77095, I84553, A81878, A95051, I84554, A18050, A23334, A75888, I70384, A64973, A60111, A23633, AR007512, I08396, I00682, A11623, A11624, E00609, E13740, A11178, E01007, A10361, A35536, A35537, A02135, A04663, A02136, A04664, I06859, I08395, AR043601, I19525, A11245, I03331, A02710, E12615, AR035193, E14304, A07700, A13392, A13393, I62368, AR031488, I13521, I52048, A27396, AR027100, I44531, I28266, I21869, I44516, A70040, E16678, A82653, E16636, A93016, A24783, A24782, A92133, A95117, A58524, A58523, A90655, AF149828, I01995, I08051, AR031566, I25027, I26929, I44515, I26928, I26930, I26927, AR038066, A32110, I60241, I60242, A20699, E00696, E00697, E03813, AR009151, AR027099, AR051652, AR051651, U94592, I05488, I61310, Z32836, A60961, A60977, Y09813, D50010, AJ230935, A91752, I08196, AR028564, A68112, A68104, AJ230902, A06419, A21892, A23997, A68114, A89633, A89634, A60985, A21895, A60990, A47368, A05160, A08030, A20502, A60987, AR027319, I19516, I19517, A91751, A76773, AR027318, A22413, I05558, A29109, A32111, AR002333, I63560, AR009152, I63561, I63563, I07249, I08776, I15353, AR068508, AR068510, AR068509, A63954, I91969, AJ230972, I58322, I58323, AR003585, A38214, I25041, I56772, I95540, A95096, A95106, A95105, AR035975, AR035974, AR035977, AR035976, AR035978, AJ230951, A70872, X07299, AJ231009, I08389, A62298, A22738, D13316, A70869, D13509, AB025273, and A25246.
HNGEC43	4134	573040	1 - 425	15 - 439	
HNGEC44	4135	806031	1 - 626	15 - 640	AI420921, and AI139760.
HNGEC75	4136	916809	1 - 619	15 - 633	
HNGED03	4137	924696	1 - 295	15 - 309	AA501465.
HNGED21	4138	920156	1 - 335	15 - 349	
HNGED77	4139	572868	1 - 358	15 - 372	
HNGED91	4140	790309	1 - 450	15 - 464	AL120191, H71450, AW339743, AI053560, AW302753, AW301906, AI144081, AW302711, AI953573, AI133727, AA514024, AL020993, AL109865, AC004671, AL118516, AL050332, AC006285, AC016025, AL031773, Z98743, AC004841, AC002418, AC004386, AL033380, Z49250, AC005225, AF165138, Z84486, Z84486, AC006080, AL022727, AC005945, AC005795, U66083, AL109963, AC000004, AL121852, Z94160, AC005150, AC002044, and AC004262.

HNGEE18	4141	573018	1 - 308	15 - 322	
HNGEE39	4142	573065	1 - 293	15 - 307	
HNGEF58	4143	708692	1 - 338	15 - 352	
HNGEG45	4144	572880	1 - 335	15 - 349	
HNGEG74	4145	860685	1 - 404	15 - 418	
HNGEG85	4146	784431	1 - 353	15 - 367	
HNGEG86	4147	573049	1 - 273	15 - 287	
HNGEI22	4148	967310	1 - 349	15 - 363	
HNGEI47	4149	720471	1 - 439	15 - 453	
HNGEJ04	4150	932199	1 - 239	15 - 253	
HNGEJ22	4151	573066	1 - 182	15 - 196	
HNGEJ35	4152	934987	1 - 545	15 - 559	F16345, AA353081, AI054090, AI251944, AW169469, AW243945, AA489897, AI358008, AI251024, AI246061, AA594705, AI376197, AI567941, AL119563, AI927393, AW275432, Z94161, AC005081, AC004386, AL023807, AL031255, AL050318, AC0060064, U91326, AC005778, AC005822, AC005971, AC004674, AL022336, AC007216, AC007055, AL133246, U02051, AL080242, AF030453, AL080243, AF045555, AL022326, AC002425, U95742, AC005088, AC005200, AF001549, AL109628, AL049636, AC005015, AC004491, AL008582, AC007011, AL133396, AJ011930, AC002565, AC007406, AL031597, AC002357, AC005280, AC002504, AC002527, AC005527, AC003029, AC004148, AC003104, AC003966, AC005317, AC003982, AC002395, AP000689, AC006241, AC004913, Z85994, AC005796, AC004841, AC004922, AF001548, AC007283, AC007227, AL133163, AP000133, AP000211, AL021155, AL009183, Z73359, Y17293, AC005529, AC006274, AL132992, AL035587, AC006130, U95740, AL031846, L76568, AL023879, AC006126, AC007066, AC003957, AL049776, AJ003147, AC007050, AL050333, AP000355, AF001550, AL050307, AC006441, AC005049, AC007205, AC006530, AC002347, AC002991, AC004019, AC007191, AF047825, AP000690, AC022517, U85195, Z92542, Z84466, AC007371, AC004149, AC007312, AC004821, AE000658, AC007666, AL034549, AC007934, AC006121, AC006285, AL132712, AC005696, AD000812, Z99716, AC006544, AL022476, AC016025, AC004929, AC004883, AC009946, AC007225, U91323, AC004031, AC004213, AC005069, AF196969, AP000359, AL022163, AC004526, AL021808, AC006077, AC004383, AC007731, AC007308, AC005919, AF003626, AL049759, AP000493, AC004991, AC007239, AC005500, AC005562, AC004893, AP000255, AC005249, U78027, AC005755, AC002126, Z84467, AP000549, AC004859, AL034379, AL080313, AC005988, AL035071, AC005516, AC005189, AC007536, AC002470, AC002430, AL034420, Z68324, AF196779, AC004560, AC004797, AC007384, AL049540, AL117344, AC005993, AB022785, AF053356, Z83838, AL035422, and AP000228.
HNGEK30	4153	572864	1 - 263	15 - 277	

HNGEK44	4154	576745	1 - 442	15 - 456	N21074, AW089204, AI433104, H67851, AA323110, AI061076, AL031273, AC016027, AC016830, AC004408, AC006344, AC009721, AC000353, AC003029, AL096774, Z86090, AC005231, AL049830, AC004522, AC005383, AC005901, AC008115, AC018767, AC004841, AC006277, AC003098, AC006141, AF111169, AC005730, AP000555, AC005229, AC002418, AC004386, AC004216, AC003982, AF141325, AL020997, AL021939, AC007688, AC006071, AL049776, AC005899, AC005004, AL033525, AC002492, and AL031291.
HNGEK68	4155	753159	1 - 328	15 - 342	T83534.
HNGEL62	4156	958363	1 - 576	15 - 590	
HNGEL92	4157	572867	1 - 359	15 - 373	
HNGEM38	4158	573041	1 - 361	15 - 375	
HNGEM53	4159	860643	1 - 388	15 - 402	
HNGEN37	4160	663955	1 - 397	15 - 411	
HNGEN45	4161	572876	1 - 350	15 - 364	
HNGEP55	4162	732262	1 - 351	15 - 365	
HNGEP61	4163	576749	1 - 296	15 - 310	
HNGEP64	4164	860631	1 - 1144	15 - 1158	AI583142, AC004491, AL022165, AL034549, AC005015, AC005585, AC004104, AC002352, U63721, AC002045, AC004997, AL020997, AC005089, AC005412, AC002554, AC002400, and AC007425.
HNGEP70	4165	572858	1 - 359	15 - 373	
HNGEP75	4166	766574	1 - 422	15 - 436	
HNGEP77	4167	861710	1 - 417	15 - 431	H14806, AW410740, AI434025, AC009542, and AC009330.
HNGEP81	4168	778161	1 - 867	15 - 881	
HNGEQ07	4169	953647	1 - 616	15 - 630	AW407886, AW239264, and AR062112.
HNGEQ32	4170	572984	1 - 266	15 - 280	AI092509.
HNGEQ67	4171	860687	1 - 297	15 - 311	
HNGER25	4172	572873	1 - 85	15 - 99	AL021921, and U95738.
HNGER43	4173	699391	1 - 302	15 - 316	AC007563, AC000030, AL023095, Z93928, AC002523, AC005035, AF043945, and AL008634.
HNGER67	4174	578903	1 - 495	15 - 509	AF104455.
HNGER82	4175	945838	1 - 625	15 - 639	R16017, AA570454, R02443, R16118, T77361, R06273, and T77056.
HNGER84	4176	586451	1 - 355	15 - 369	AI763088, AL135549, AC010385, AJ223814, AJ223777, X99326, and AF042089.
HNGER96	4177	922996	1 - 505	15 - 519	
HNGES56	4178	733543	1 - 291	15 - 305	
HNGES59	4179	490034	1 - 600	15 - 614	F30908.
HNGES89	4180	573013	1 - 418	15 - 432	
HNGET07	4181	953618	1 - 397	15 - 411	
HNGET31	4182	506498	1 - 460	15 - 474	

HNGET67	4183	953529	1 - 356	1 - 724	
HNGEU35	4184	853582	15 - 370	15 - 738	AL046457, AI826263, AA604333, AW402063, AA359347, AA101689, AW021583, AA679936, AA846952, AI963720, AL044441, AAS02104, N48230, AI732120, AA507824, AI561060, AA487621, AI686267, AA680243, AI696955, AA707833, AW080120, AA666052, AA126450, AA548058, AW070892, AW302013, AA773153, AW102849, R79698, AA745326, AI635279, F17149, AI811809, AA806796, AI733755, R40056, AL042753, AI499588, AA610777, AI669453, AAS08034, AA250819, AA639173, AA713626, AW440497, AL119713, AC005015, AC005081, AL020993, AL121603, AC002425, AL022316, AL096791, AC005071, U95740, AC004983, AC004150, AC006312, AL022163, AC003080, AL024507, AC007551, AC005736, AL049569, AP000240, AC005037, AC007227, AC009399, AC006449, U95742, AF088219, AC004019, AC002365, AC002350, AC005839, AL035079, AL121694, AL031577, AL023807, AL031283, AC004638, AL034429, AC007243, AC006115, AC005585, AC002492, AC005231, AL096774, AC005102, AC004263, AL021155, AC006116, AF109907, AL035072, AC005486, AC009516, Z97053, AC002470, AC002565, AC005996, AF045555, AC007216, AL022721, AC005089, AC004675, AL049869, Z68870, AC004216, AF053356, AL109827, AC006057, AC004821, AC004876, AC016025, AC002395, AP000689, AC002070, AP000557, AC004491, AC007546, AL050318, AC002314, AC005722, U47924, AC002310, AC004990, AL132992, AC004966, AP000201, AP000555, AL132777, AC007384, Z83840, AC005666, AC005519, AC006271, AC006211, AC004882, Z82201, AC004859, AF031078, U80017, AP000097, AL121655, AC007510, AL035423, AC005041, AC004531, AC006241, AC006261, AC005527, AL009179, AC002472, Z85986, AC005914, AC004686, AC005031, AF030876, AC007207, AC007387, AC003982, AL035071, AF196969, AC007664, U91323, AC005154, AL031311, AL021546, AL034451, AC004815, AC003681, AC006948, Z84469, AC004841, AC006285, Z93017, AP000133, AP000211, AC002301, AC005829, AL050341, AL031767, U91326, AC007225, AC007999, AL035695, AC002072, AL031659, AP000556, U82671, AC004699, AP000553, Z95116, AC005899, AC008372, AC002430, AL022322, AL080243, AJ246003, AC004878, AC008101, AC006547, AL031680, AC006111, AL021807, AC006388, AL109984, AP000493, AC004929, AC002429, AC002316, AL022315, AC002563, AL035415, AC005291, AC004668, AC005480, AC002400, AC004972, AC005783, AL078477, AC007676, AC007011, AC006537, AC003108, AC007919, AL022311, AC005288, AL049759, AP000209, AP000131, AC000004, AC006080, AC002984, AF038458, Z83838, AC006965, AC007388, AC007686, AC005844, AC005180, AC005193, AC005821, AC007298, AC007845, AC004560, AL031594, AJ010770, Z83822, AC006023, AC005529, AB023049, AC006207, Z99716, AL023879, AL021154, AL023575, AC005632, AC007421, AC005778, AP000346, U85195, AC005162, AC012384, AC004598, AJ006345, AC005358, AL035089, AC005726, AC004905, AC004813, AL136295, AF064861, AL133246, AF205588, AL049795, AL031584, AC004671, AL031427, AC007324, AC006544, AL109801, AC011718, AC006480, and AL035659.

HNGEU37	4185	860626	1 - 134	15 - 148	AA378548, and AC005071.
HNGEV33	4186	781207	1 - 400	15 - 414	
HNGEV34	4187	490914	1 - 517	15 - 531	AW275432, AA601376, AI791659, C15966, AL048969, AW151247, AA730872, AA761606, AI521525, AI090377, AW020150, AI224583, AA761714, AA719564, AI926102, R23873, AA573067, R42954, AA831426, AI613459, AA298365, AA501807, AI801563, AA586474, AA723132, AA493546, AA064983, AW270652, AA135761, C14614, AA504924, AI720671, AA174108, AA489390, AA525807, AW272389, AA565338, AA654705, AA661583, AA516242, AA470612, AA526542, AA297208, F23338, AA708751, AA555131, AW264548, AA503144, AI754421, AI879968, AA218684, AL134338, AA767558, AI309943, AA420787, AW008089, AA493245, AA350886, AA524604, AW194046, AW075296, D44672, AA738014, AA729350, AI049845, AI040313, AI910609, AA515165, AI678812, AI798521, AA084320, AA718906, AA984114, AA484892, AA808875, AI952885, AL079734, AI760835, AA420801, AA533176, AI635440, AI148245, AI804539, T15873, AI925423, AL042667, AL042670, AA669711, AI128353, AA056619, AA482725, AI567402, AA653221, AI986251, AA813902, AA765768, R43331, AA601333, AI431232, AC008585, AC005520, AL079295, AC006132, AF111168, AC005399, AC009247, AL049757, AC005519, AP000037, AL023281, AL117337, AC005632, AP000555, AC007226, AL022334, AL122023, AL031680, AL133371, AC006430, AC005696, Z98946, AC004583, AC005730, AC005839, AL031295, AF067844, AC004491, AL031670, AL049694, AC002470, AC006531, AL033527, AC007263, AC005754, AB023048, AC005736, AC006468, AC005291, AC002302, AC005921, Z77249, Z93241, AL109865, AC004815, AC005829, AP000691, AC005234, AC006006, AC008115, AC005215, AL031311, AC007040, AC006241, AP000511, AL034554, AC004999, AC007065, AC006205, Z98743, AL035086, AC008040, AP000114, AP000046, AC002449, AC007065, AC006480, AC006001, AC004673, AC004890, AC008154, AC007390, AL022313, AL121655, AL133448, Z83844, AC000353, AC004386, AC007021, AC005011, AC004408, AL133448, AC002301, AL049830, AC005841, U91323, AC004832, AC006511, AL031283, AL034548, AC002553, AF134726, AF205588, AP000099, AC003043, AP000359, AC005933, AL049766, AL034347, AP000552, U91326, Z84466, AL031123, AL030995, AL049794, U82828, Z98884, AC005229, AC005920, AC002400, AC006958, AL022302, AC008123, AC018633, AC002544, AP000036, D84394, AC006285, U47924, Z85986, AC002492, AC007298, AL049872, AC005081, AL121658, AC005484, AC004081, AC006079, AC010205, AC003108, AC005071, AC004802, AL133246, AC006597, AL035420, AC006101, Z82201, AL024509, Z99716, AP000350, Z86090, AC006115, AL031643, AC003101, Z75890, AC007421, AC004605, AL031121, AC004895, AC003007, AC004686, L78833, AC005015, AL031120, AC004526, U91327, AC002310, AC004638, AC005013, AC004000, AC005060, AC008498, AC005914, AL133321, Z81369, AC002310, AC004967, AC005261, AJ011930, Z95113, AF001550, AL031255, AC007917, AL035587, AB004907, AF053356, AL009181, AL096763, AC005924,